CX-LZX7

SERVICE MANUAL

Ver 1.0 2004.05

US Model
Canadian Model
AEP Model
UK Model
E Model

- CX-LZX7 is the Amplifier, CD player, Tape Deck and Tuner section in AWP-ZX7.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM69CV-F4BD81B2
	Base Unit Name	BU-F4BD81B2
	Optical Pick-up Name	KSM-215CFP/C2NP
TAPE Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	CMAL1Z250A

SPECIFICATIONS

Main Unit

Amplifier section

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 6-ohm loads, both channels driven, from 120 – 10,000 Hz: rated 60 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

North American model:

Continuous RMS power output (reference): 60 + 60 W (6 ohms at 1 kHz, 10% THD)
Total harmonic distortion less than 0.05% (6 ohms at 1 kHz, 30 W)

European model:

DIN power output (rated): 45 + 45 W (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 60 + 60 W (6 ohms at 1 kHz, 10% THD)
Music power output (reference): 100 + 100 W (6 ohms at 1 kHz, 10% THD)

Other models:

The following measured at 220 – 240 V AC, 50/60 Hz
DIN power output (rated): 45 + 45 W (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 60 + 60 W (6 ohms at 1 kHz, 10% THD)
Inputs
AUX IN (RCA pin jacks): Sensitivity 1 V, impedance 47 kilohms
Outputs
PHONES (stereo mini jack): accepts headphones with an impedance of 32 ohms or more
SPEAKER: accepts impedance of 6 ohms
SUB WOOFER OUT: voltage 1.5 V

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ=770 – 810 nm) Emission duration: continuous
Frequency response	20 Hz – 20 kHz
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

Tape deck section

Recording system	4-track 2-channel stereo
Frequency response	100 – 10,000 Hz, using Sony TYPE I cassettes

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range

North American model:	87.5 – 108.0 MHz (100-kHz step)
Other models:	87.5 – 108.0 MHz (50-kHz step)
Antenna	FM lead antenna
Antenna terminals	75 ohms unbalanced
Intermediate frequency	10.7 MHz

— Continued on next page —

MICRO HI-FI COMPONENT SYSTEM

9-877-859-01
2004E1679-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

AM tuner section

Tuning range

Pan-American model:	530 —1,710 kHz (with the tuning interval set at 10 kHz) 531 —1,710 kHz (with the tuning interval set at 9 kHz)
European model:	531 —1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	530 —1,710 kHz (with the tuning interval set at 10 kHz) 531 —1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna, external antenna terminal
Intermediate frequency	450 kHz

General

Power requirements

North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Korean model:	220 V AC, 60 Hz
Other models:	120 V, 220 V or 230 —240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption

North American model:	60 W
European model:	60 W 0.3 W (in Power Saving mode)
Other models:	70 W

Dimensions (w/h/d) incl. projecting parts and controls

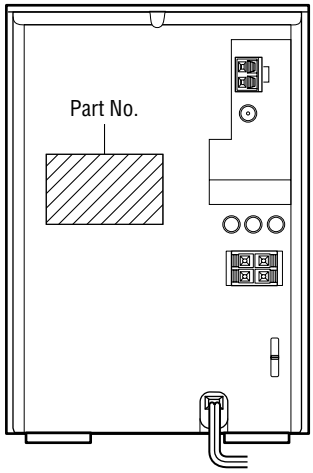
Amplifier/Tuner/Tape/CD section:
Approx. 190 × 277 × 361.4 mm

Mass

Amplifier/Tuner/Tape/CD section:
Approx. 6.2 kg

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION
— Back Panel —



Model Name	Part No.
US model	4-254-181-0□
AEP, UK models	4-254-181-1□
E51 model	4-254-181-3□
CND model	4-254-181-4□
SP model	4-254-181-6□
Korean model	4-254-181-7□

- Abbreviation
  CND : Canadian model
  E51 : Chilean and Peruvian models
  KR : Korean model
  SP : Singapore model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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SECTION 1
SERVICING NOTES

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing
- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

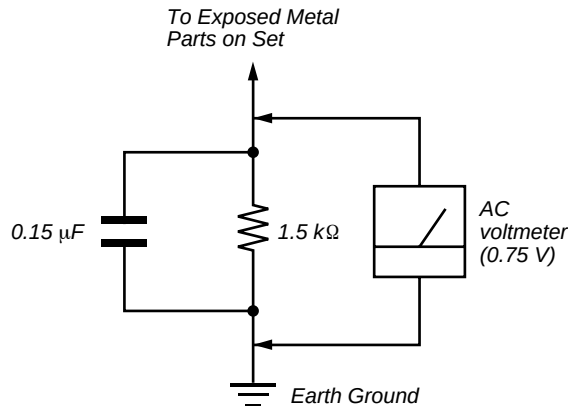


Fig.A. Using an AC voltmeter to check AC leakage.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveforms is output three times.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.
- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

This section is extracted from instruction manual.

SECTION 2
GENERAL

List of button locations and reference pages

How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.

Illustration number
↓
DISPLAY 23 (16, 23)
↑ ↑
Name of button/part Reference page

Main unit

ALPHABETICAL ORDER

A – O

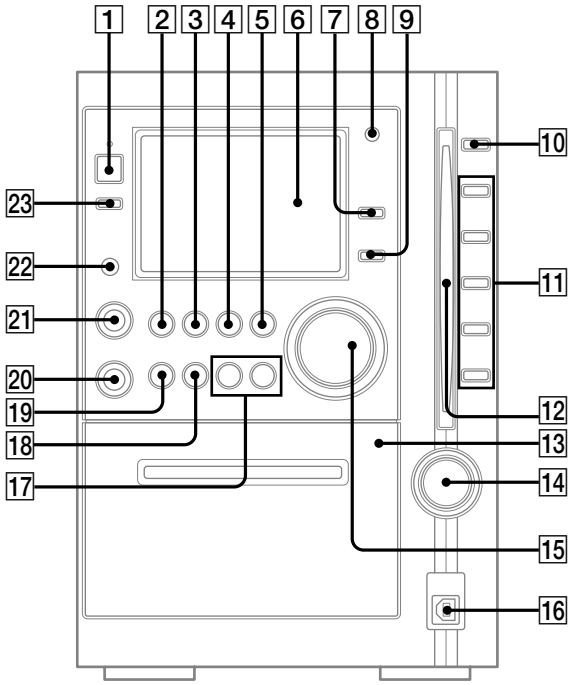
BASS control 20 (20)
CD SYNC 7 (18)
DIRECTION 19 (17, 18, 19, 22)
DISC 1 – 5 11 (10, 11, 13, 18)
Disc slot 12 (10)
DISPLAY 23 (16, 23)
Display window 6
FUNCTION 5 (9, 10, 13, 14, 15, 17, 19, 26, 29, 31)
i-Bass 14 (20, 34)

P – Z

PHONES jack 22
PLAY MODE 19 (11, 13, 18)
Remote sensor 8
TREBLE control 21 (20)
TUNER BAND 4 (14, 15, 19)
TUNING +/– 17 (14, 15)
TUNING MODE 19 (14, 15)
USB port 16 (25, 30)
VOLUME control 15 (29)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (8, 15, 26, 34)
TAPE ◄► (play) 2 (17, 18, 22)
CD ►II (play pause) 3 (11)
● REC PAUSE/START 9 (18)
⏏ CD (eject) 10 (9, 10)
⏏ PUSH 13 (17)
I◄◄ /►►I (go back/go forward) 17 (11)
◄◄/►► (rewind/fast forward) 17 (9, 11, 15, 17)
■ (stop) 18 (11, 15, 17, 18)



Remote control

ALPHABETICAL ORDER

A – E

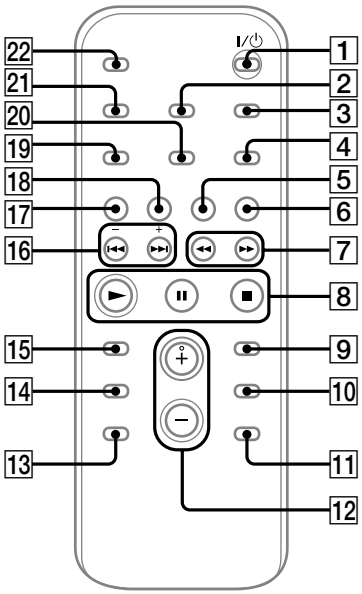
ALBUM + 11 (11, 13, 18)
ALBUM – 13 (11, 13, 18)
CD 18 (10, 13, 19)
CLEAR 15 (13)
CLOCK/TIMER SELECT 2 (21, 22)
CLOCK/TIMER SET 3 (9, 21, 22)
DISC SKIP 10 (11, 13)
DISPLAY 21 (16, 23)
ENTER 9 (9, 13, 14, 21, 22)
EQ 14 (20)

F – Z

FM MODE 4 (16)
FUNCTION 6 (10, 13, 14, 15, 17, 19, 26, 29, 31)
PLAY MODE 20 (11, 13)
REPEAT 4 (12)
SLEEP 22 (20)
TAPE 17 (17, 19)
TUNER BAND 5 (14, 15, 19)
TUNER MEMORY 19 (14)
TUNING MODE 20 (14, 15)
VOLUME +/– 12 (21, 29)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (8, 15, 21, 26)
◀◀/▶▶ (rewind/fast forward) 7 (11, 15, 17)
II (pause) 8 (11, 17)
■ (stop) 8 (11, 17, 18, 22)
► (play) 8 (11, 17)
–/+ (tuning) 16 (14, 20)
I◀◀ /▶▶I (go back/go forward) 16 (9, 11, 21)



Setting the clock

Use buttons on the remote for the operation.

1 Press I/⏻ to turn on the system.

2 Press CLOCK/TIMER SET.

3 Press I◀◀ or ▶▶I repeatedly to set the hour.

4 Press ENTER.

5 Press I◀◀ or ▶▶I repeatedly to set the minute.

6 Press ENTER.

The clock starts working.

To adjust the clock

1 Press CLOCK/TIMER SET.

2 Press I◀◀ or ▶▶I until “CLOCK SET?” appears, then press ENTER.

3 Do the same procedures as step 3 to 6 above.

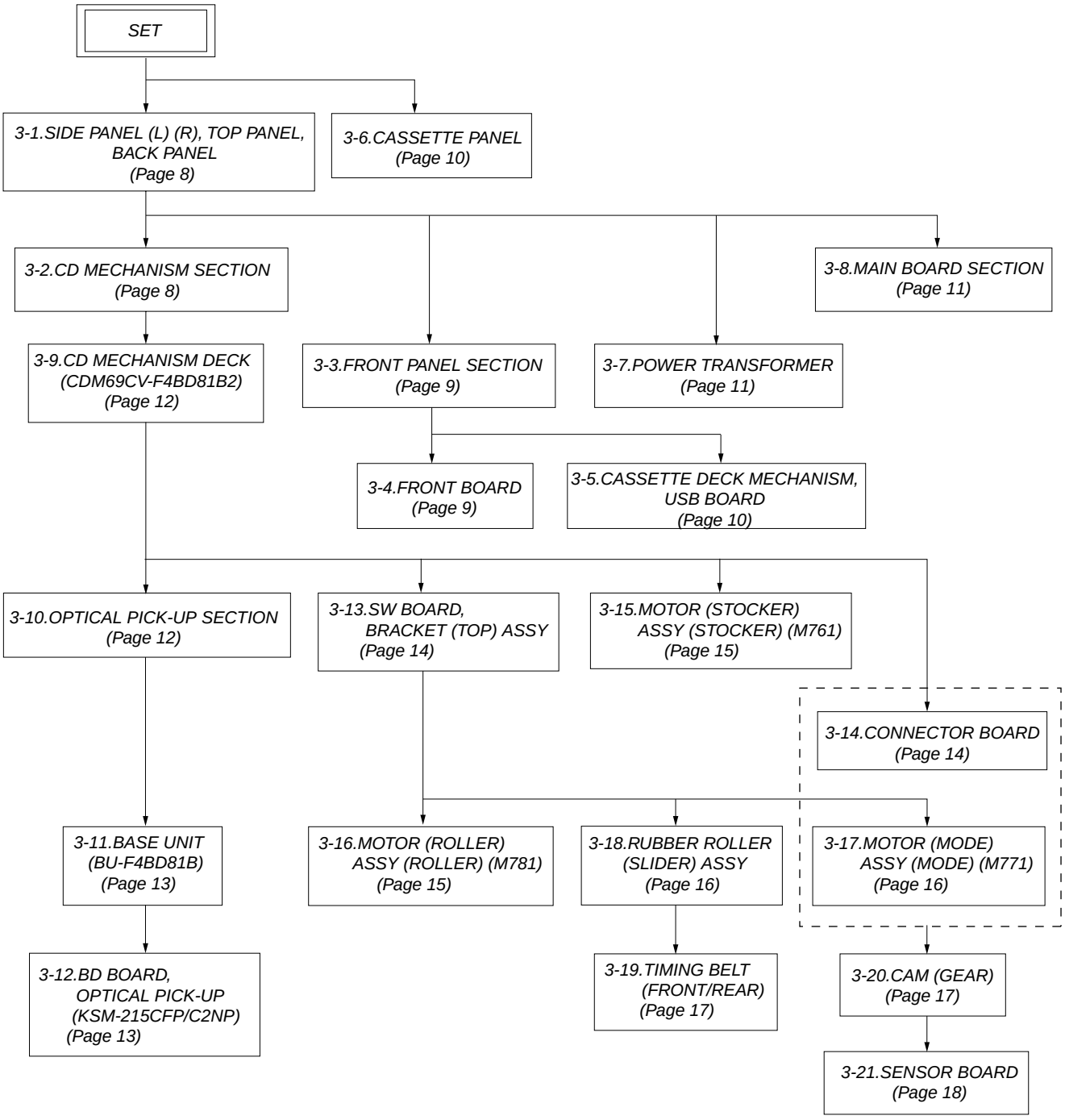
Notes

- The clock settings are canceled when you disconnect the power cord or if a power failure occurs.
- You cannot set the clock in Power Saving Mode (page 23).

SECTION 3
DISASSEMBLY

• This set can be disassembled in the order shown below.

• The dotted square with arrow (⬚┣) prompts you to move to the next job when all of the works within the dotted square (⬚) are completed.


SET
3-1.SIDE PANEL (L) (R), TOP PANEL, BACK PANEL (Page 8)
3-6.CASSETTE PANEL (Page 10)
3-2.CD MECHANISM SECTION (Page 8)
3-8.MAIN BOARD SECTION (Page 11)
3-9.CD MECHANISM DECK (CDM69CV-F4BD81B2) (Page 12)
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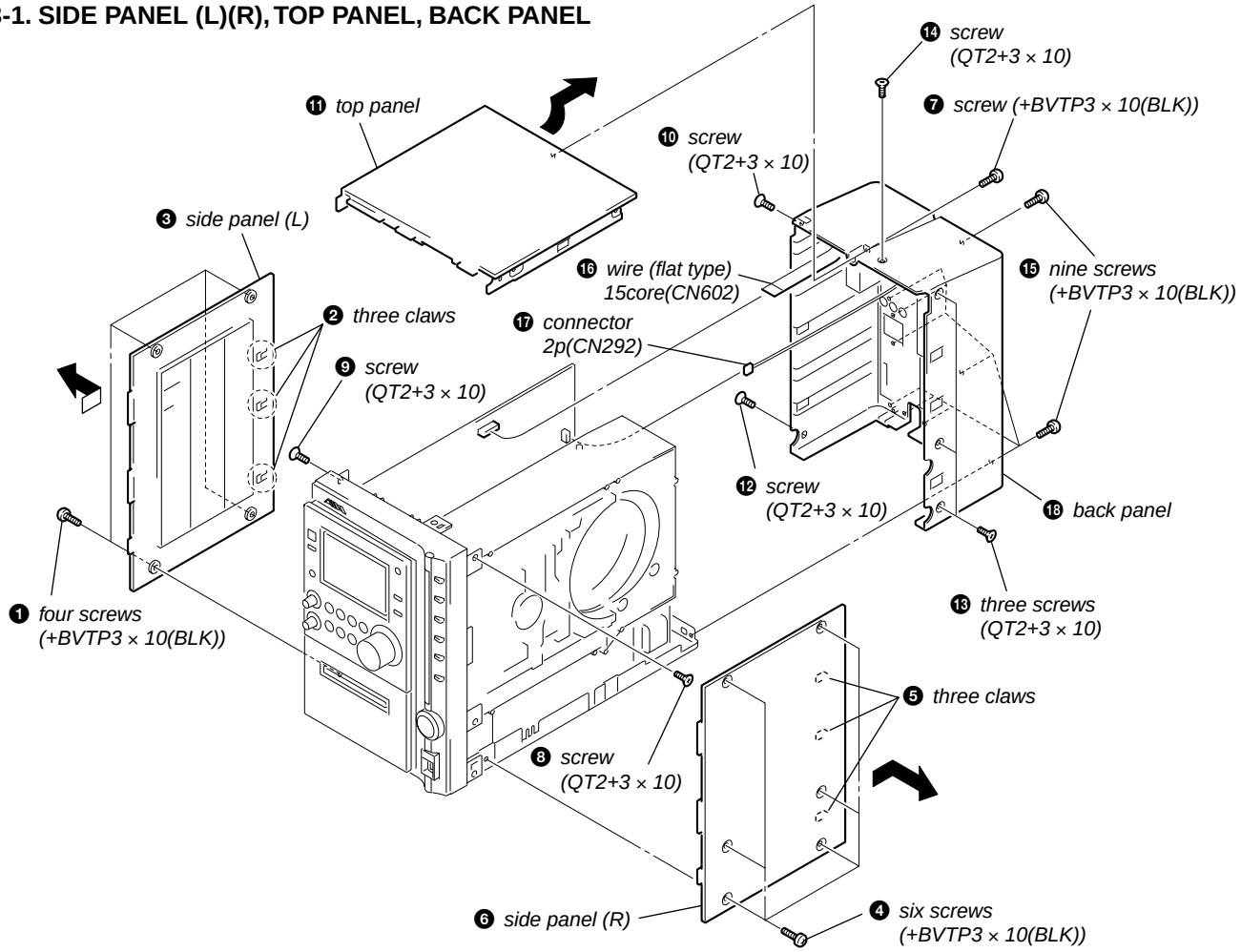
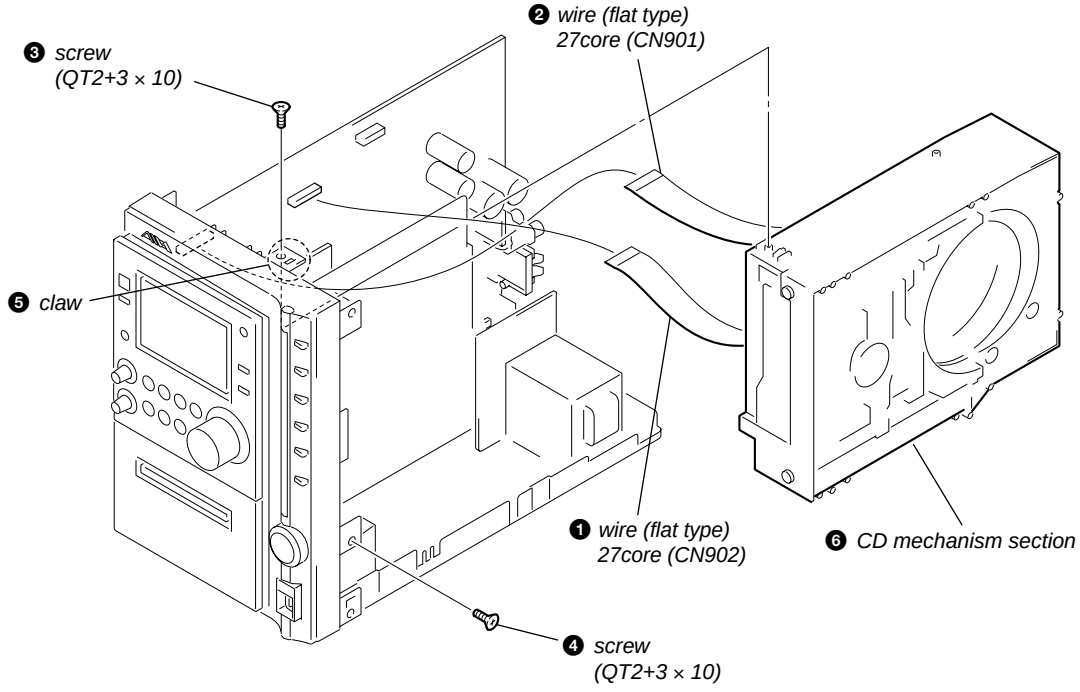
3-5.CASSETTE DECK MECHANISM, USB BOARD (Page 10)
3-10.OPTICAL PICK-UP SECTION (Page 12)
3-13.SW BOARD, BRACKET (TOP) ASSY (Page 14)
3-15.MOTOR (STOCKER) ASSY (STOCKER) (M761) (Page 15)
3-14.CONNECTOR BOARD (Page 14)
3-11.BASE UNIT (BU-F4BD81B) (Page 13)
3-16.MOTOR (ROLLER) ASSY (ROLLER) (M781) (Page 15)
3-18.RUBBER ROLLER (SLIDER) ASSY (Page 16)
3-17.MOTOR (MODE) ASSY (MODE) (M771) (Page 16)
3-12.BD BOARD, OPTICAL PICK-UP (KSM-215CFP/C2NP) (Page 13)
3-19.TIMING BELT (FRONT/REAR) (Page 17)
3-20.CAM (GEAR) (Page 17)
3-21.SENSOR BOARD (Page 18)

Note: Follow the disassembly procedure in the numerical order given.

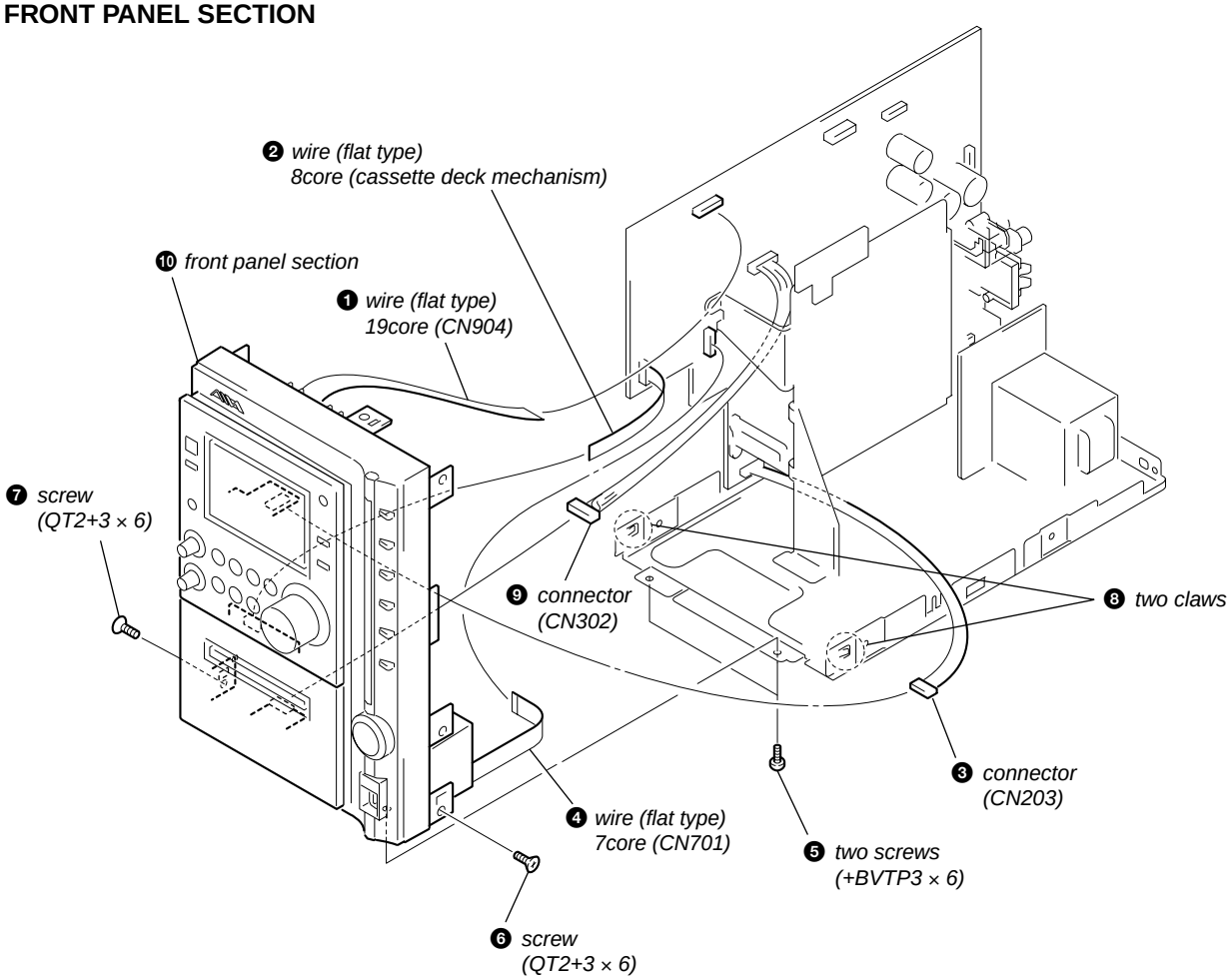
3-1. SIDE PANEL (L)(R), TOP PANEL, BACK PANEL


❶ four screws (+BVTP3 × 10(BLK))
❷ three claws
❸ side panel (L)
❹ six screws (+BVTP3 × 10(BLK))
❺ three claws
❻ side panel (R)
❼ screw (+BVTP3 × 10(BLK))
❽ screw (QT2+3 × 10)
❾ screw (QT2+3 × 10)
❿ screw (QT2+3 × 10)
⓫ top panel
⓬ screw (QT2+3 × 10)
⓭ three screws (QT2+3 × 10)
⓮ screw (QT2+3 × 10)
⓯ nine screws (+BVTP3 × 10(BLK))
⓰ wire (flat type) 15core(CN602)
⓱ connector 2p(CN292)
⓲ back panel

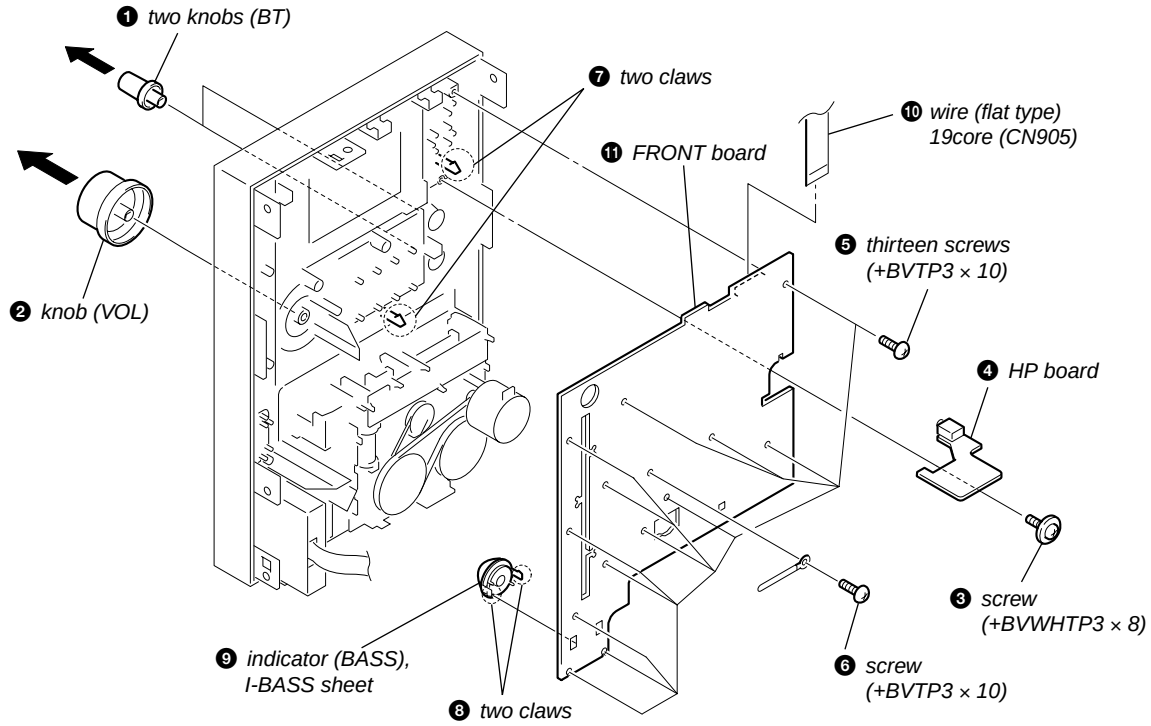
3-2. CD MECHANISM SECTION



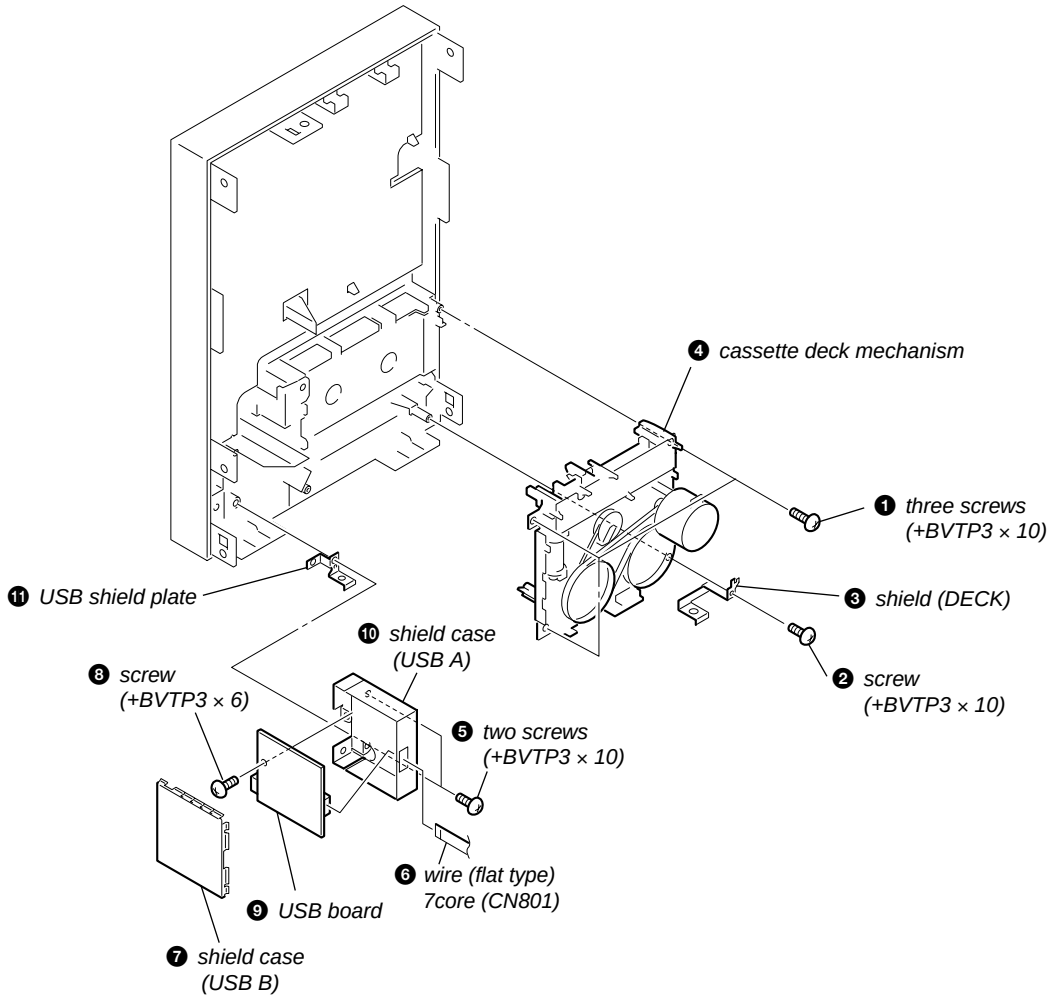
3-3. FRONT PANEL SECTION



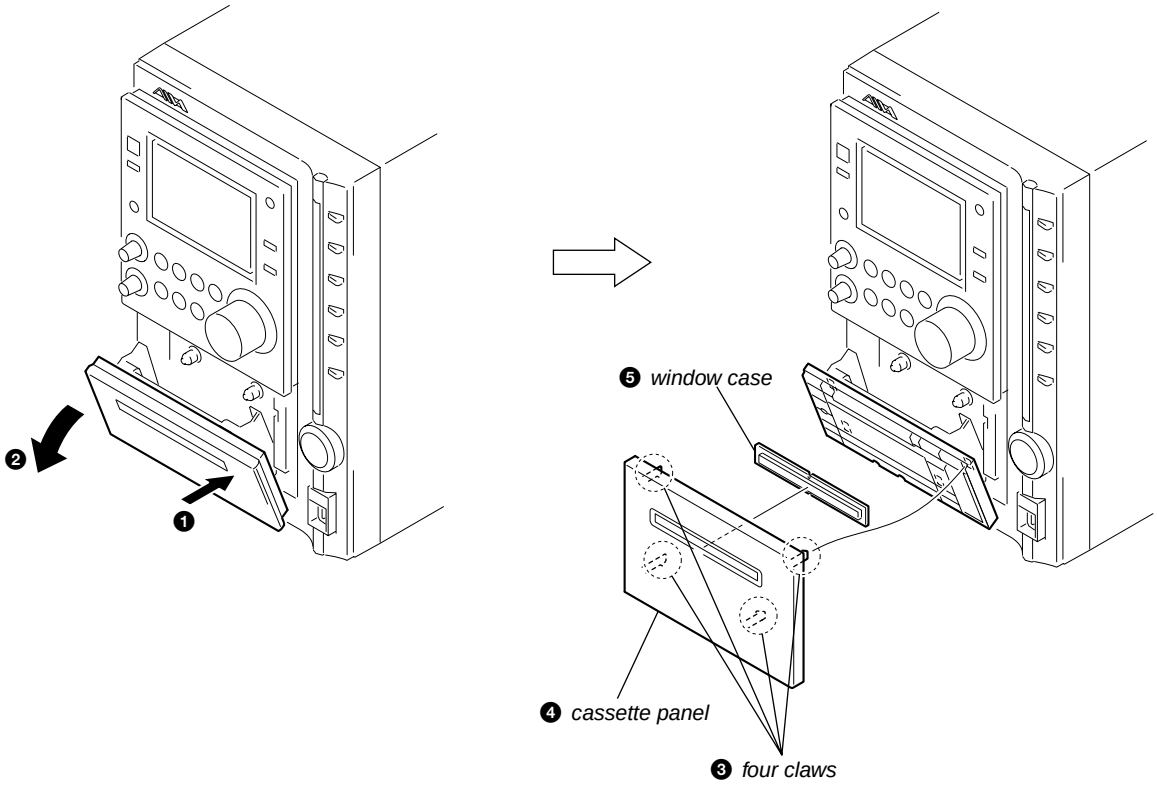
3-4. FRONT BOARD



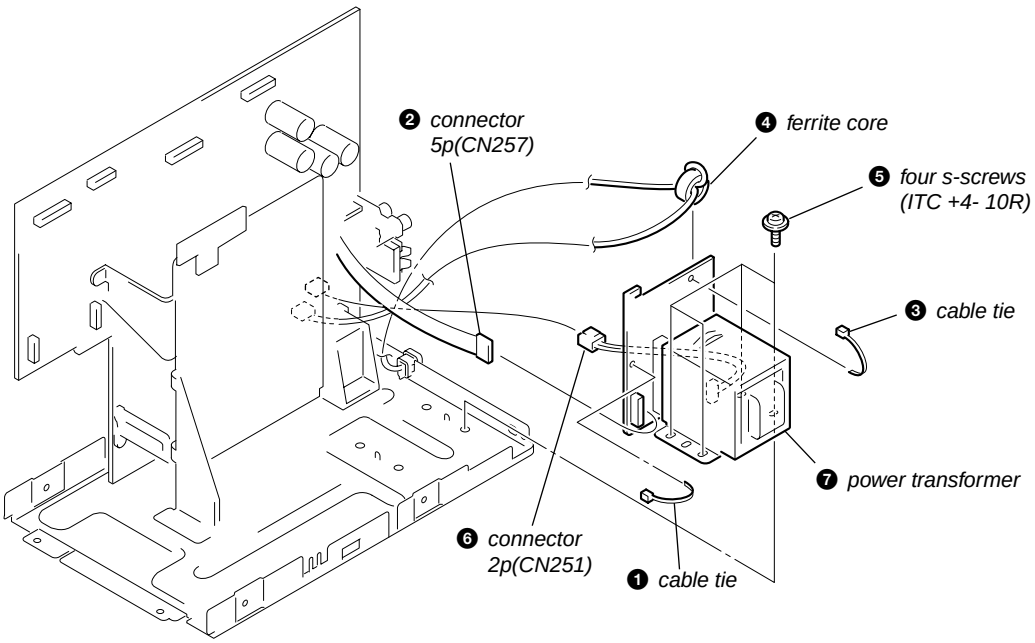
3-5. CASSETTE DECK MECHANISM, USB BOARD


❹ cassette deck mechanism
❶ three screws (+BVTP3 × 10)
❸ shield (DECK)
❷ screw (+BVTP3 × 10)
⓫ USB shield plate
❿ shield case (USB A)
❽ screw (+BVTP3 × 6)
❺ two screws (+BVTP3 × 10)
❻ wire (flat type) 7core (CN801)
❾ USB board
❼ shield case (USB B)

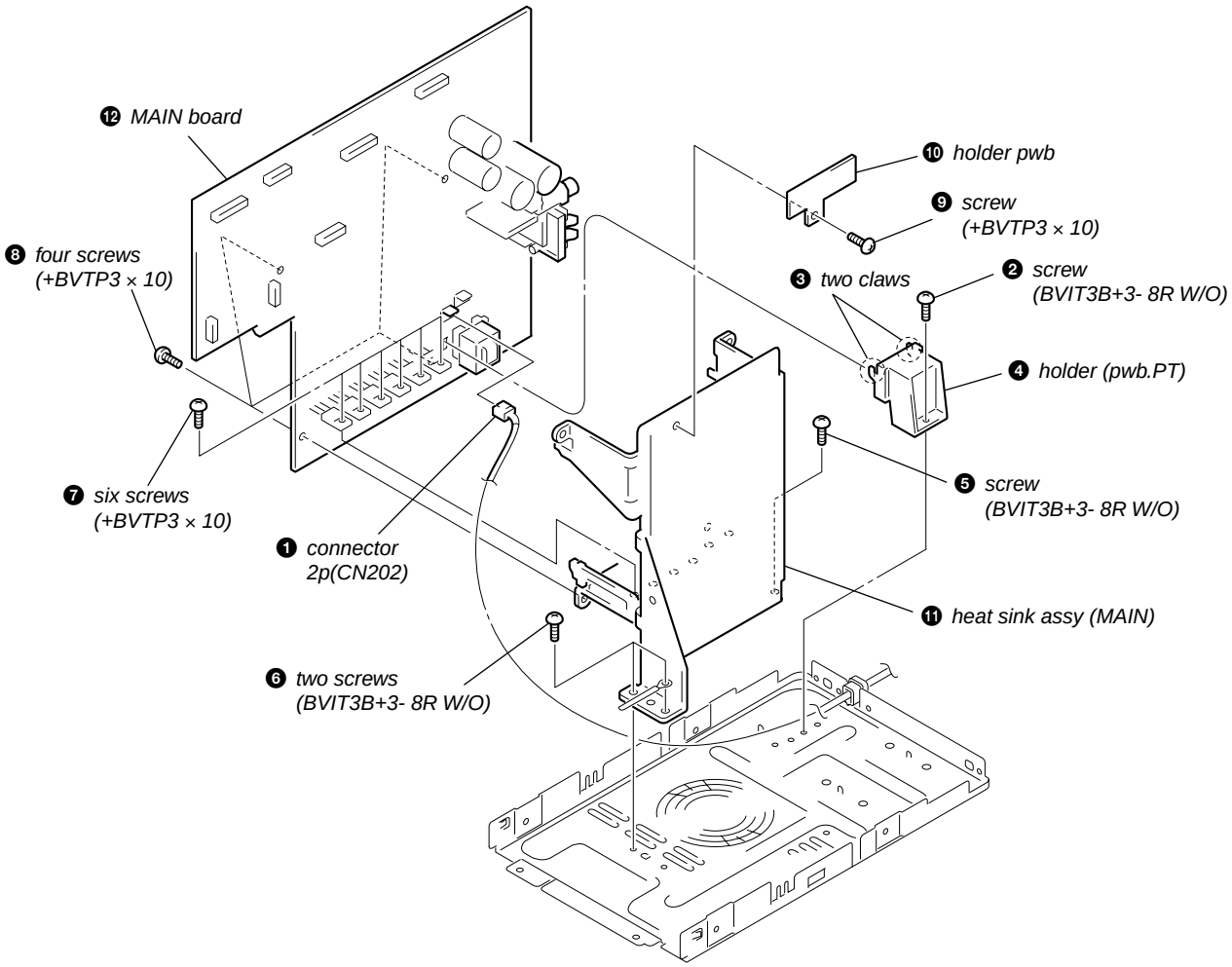
3-6. CASSETTE PANEL



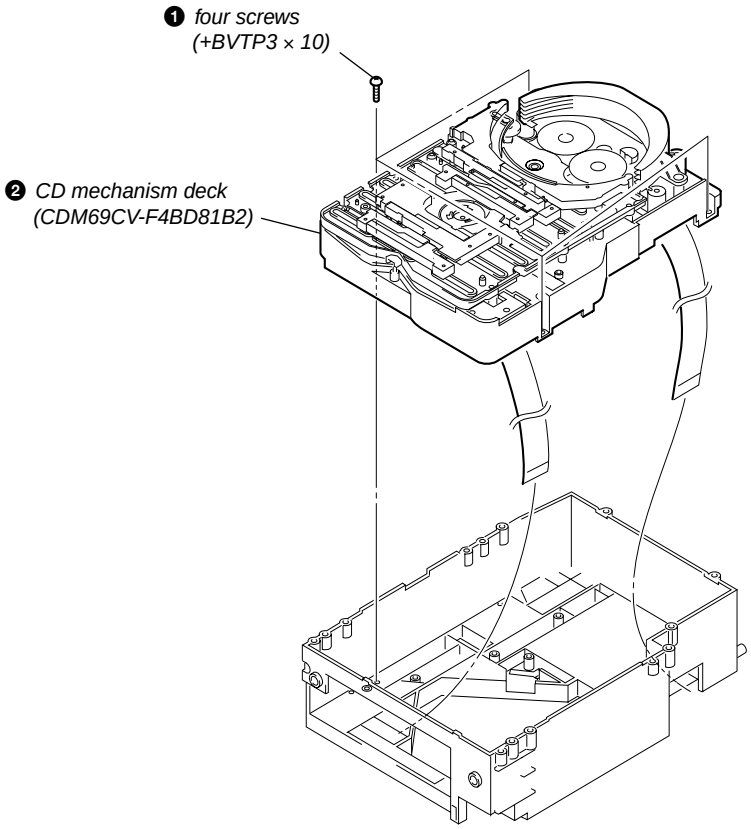
3-7. POWER TRANSFORMER



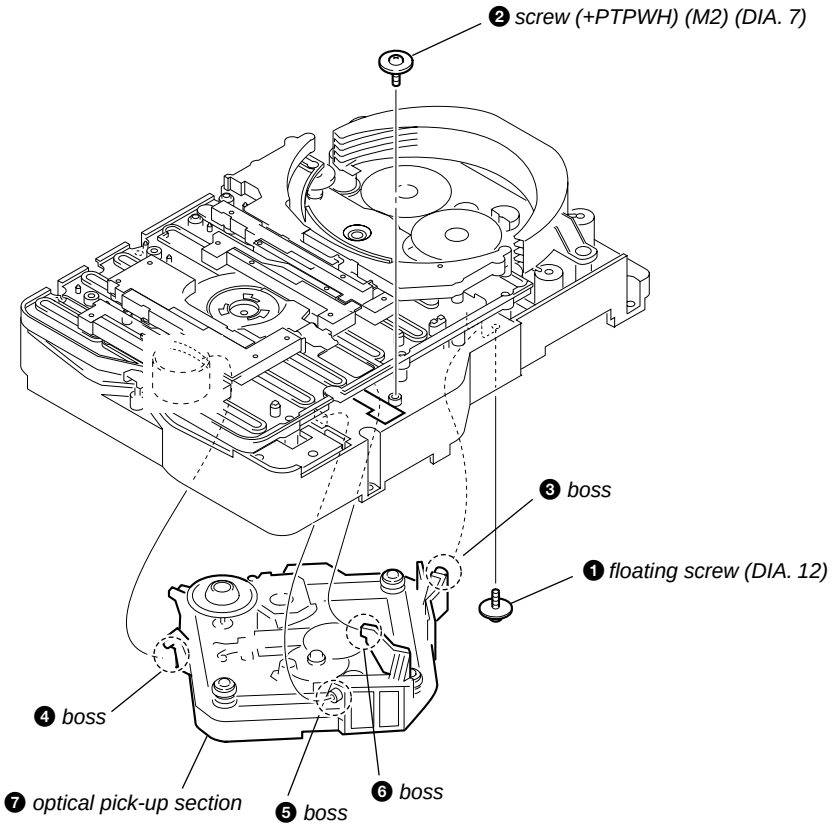
3-8. MAIN BOARD SECTION



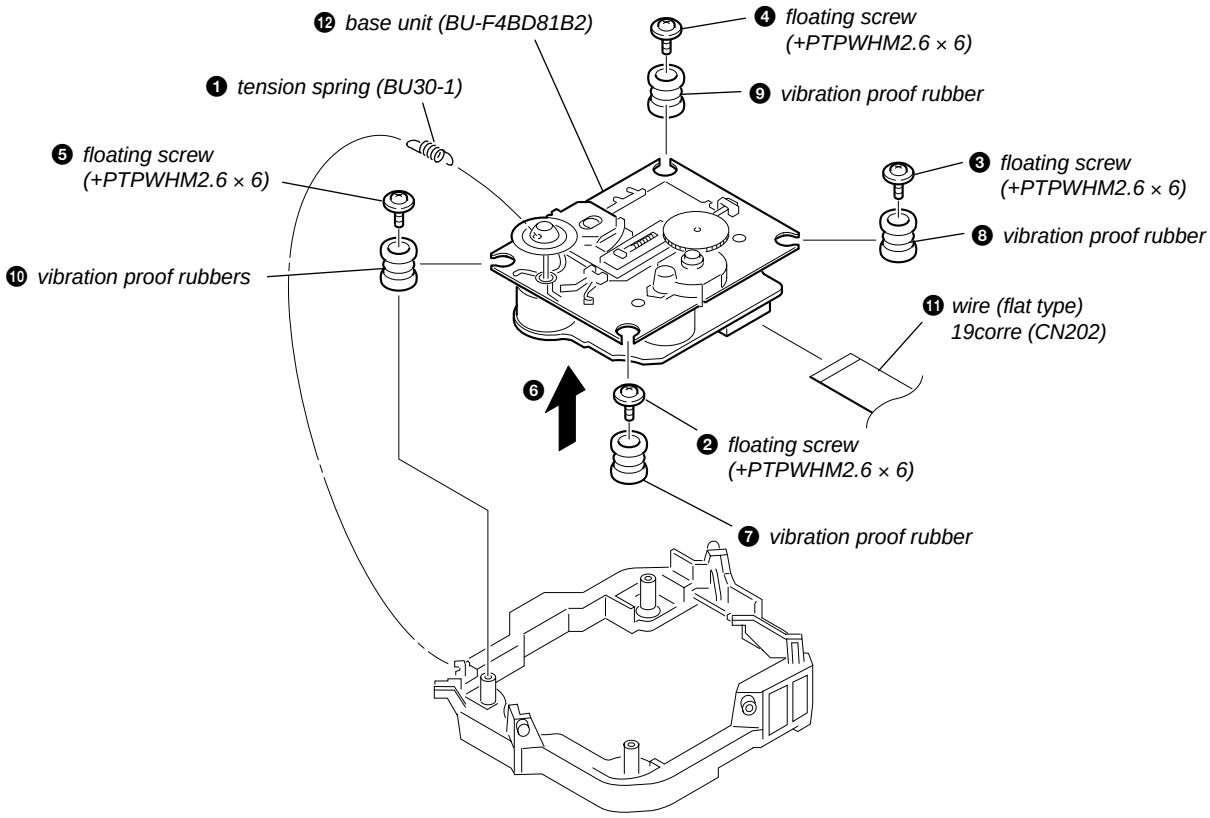
3-9. CD MECHANISM DECK (CDM69CV-F4BD81B2)



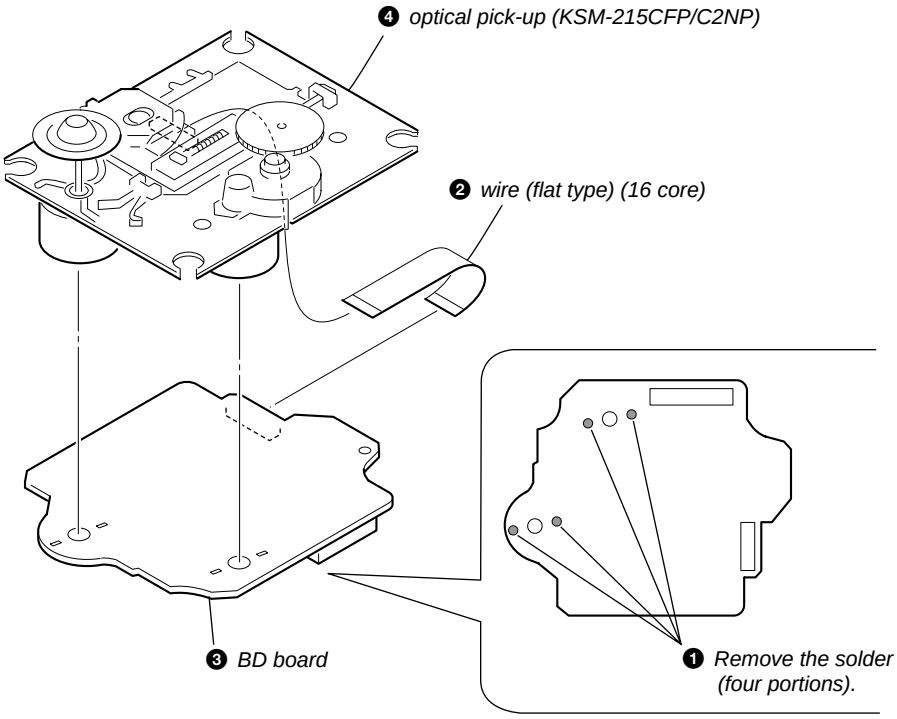
3-10. OPTICAL PICK-UP SECTION



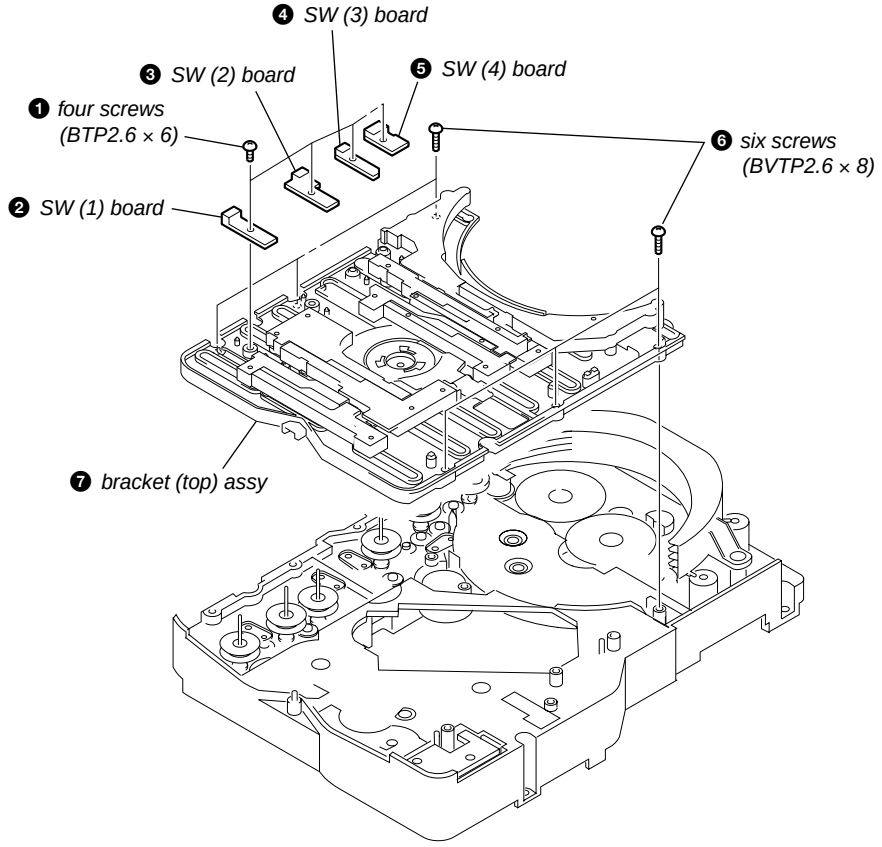
3-11. BASE UNIT (BU-F4BD81B2)


⓬ base unit (BU-F4BD81B2)
❹ floating screw (+PTPWHM2.6 × 6)
❶ tension spring (BU30-1)
❾ vibration proof rubber
❺ floating screw (+PTPWHM2.6 × 6)
❸ floating screw (+PTPWHM2.6 × 6)
❽ vibration proof rubber
❿ vibration proof rubbers
⓫ wire (flat type) 19corre (CN202)
❻
❷ floating screw (+PTPWHM2.6 × 6)
❼ vibration proof rubber

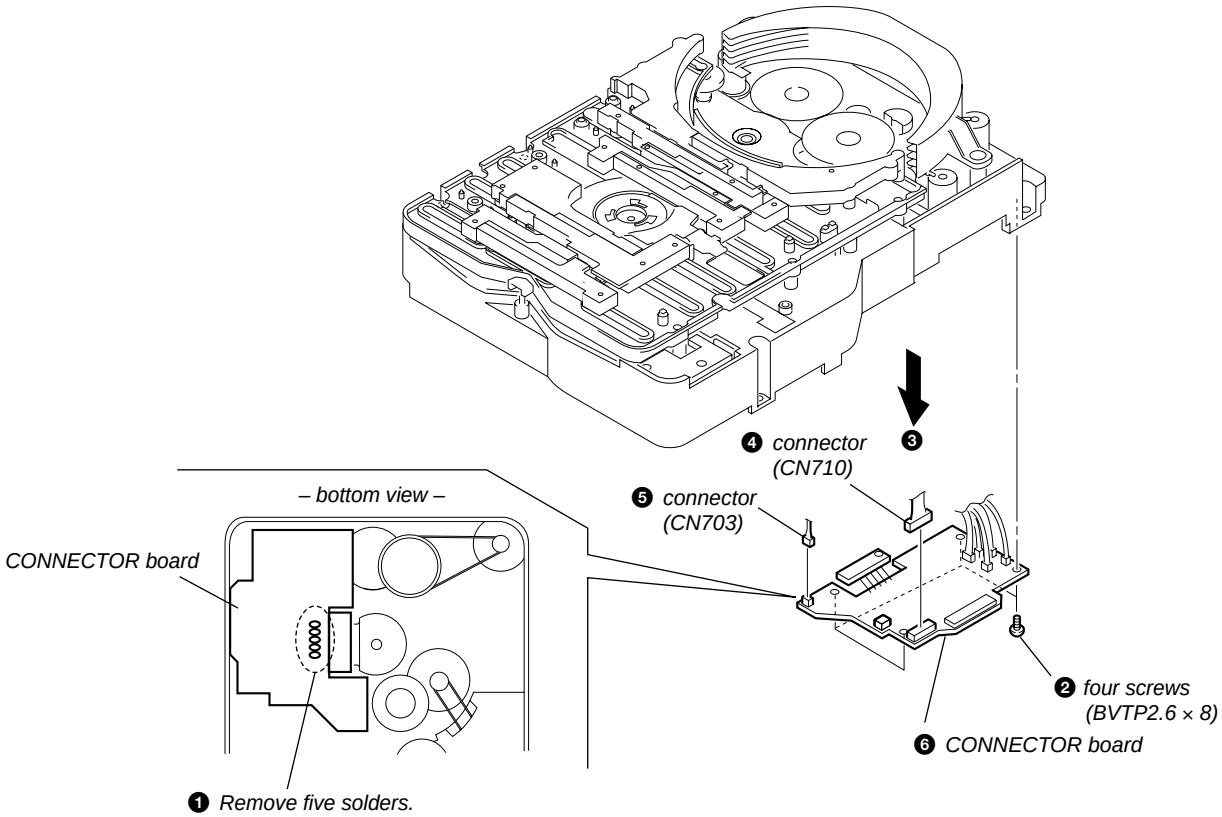
3-12. BD BOARD, OPTICAL PICK-UP (KSM-215CFP/C2NP)



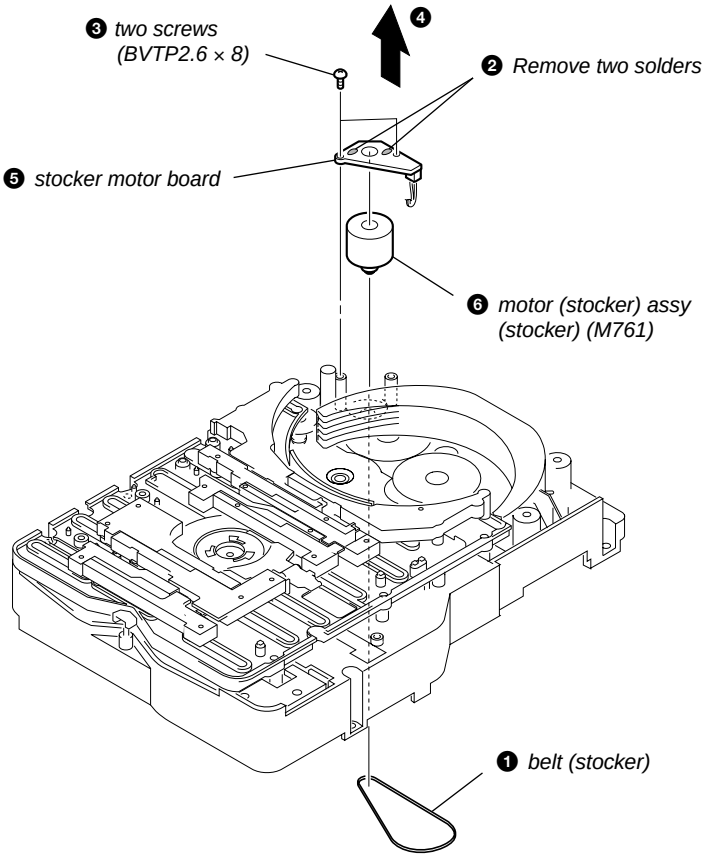
3-13. SW BOARD, BRACKET (TOP) ASSY



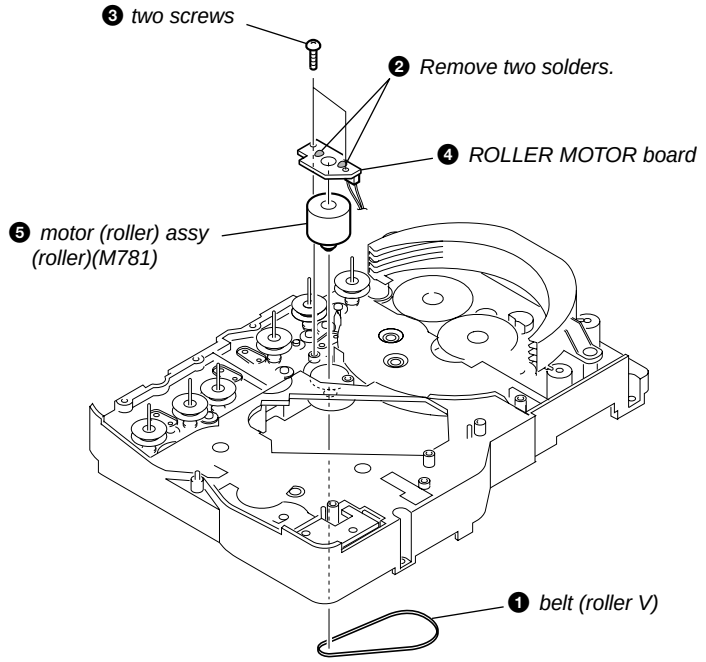
3-14. CONNECTOR BOARD



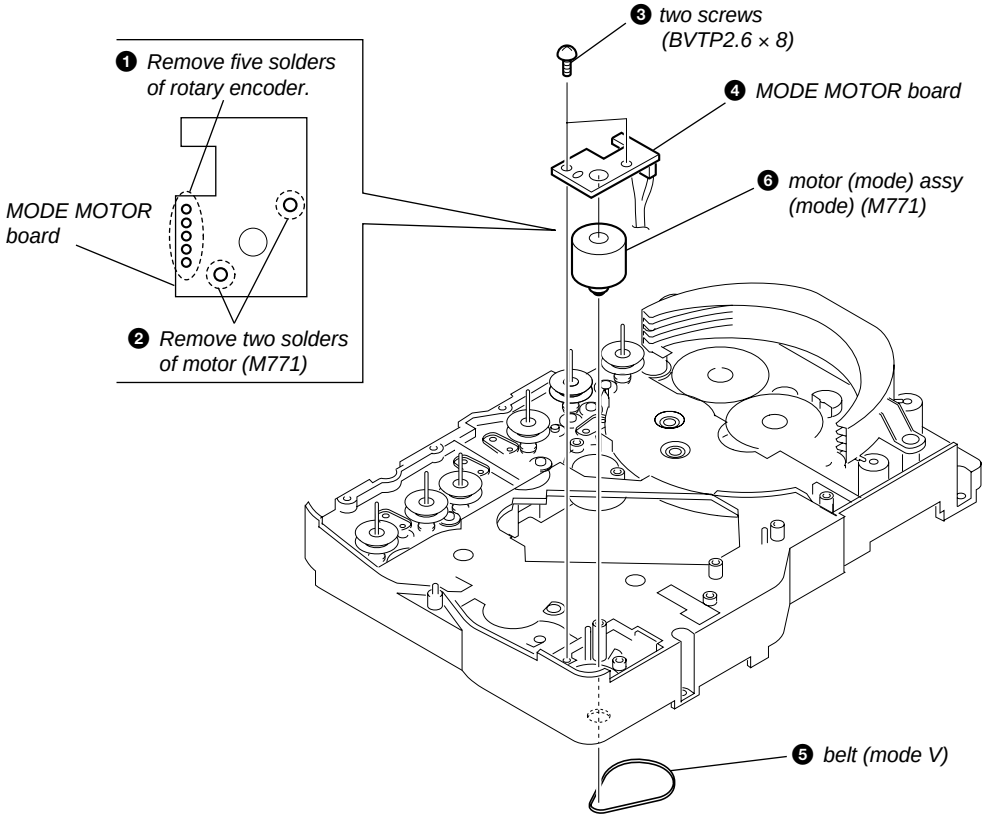
3-15. MOTOR (STOCKER) ASSY (STOCKER)(M761)



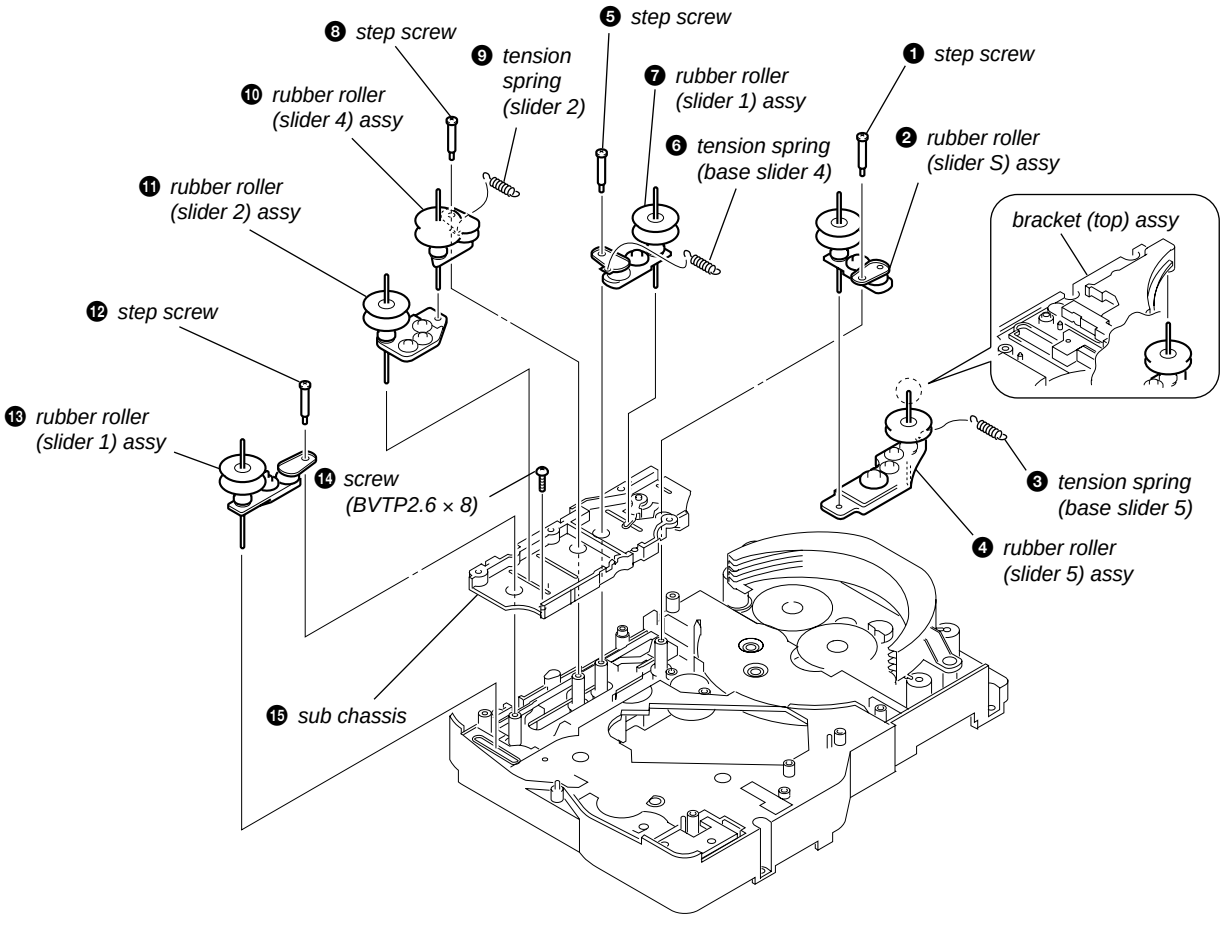
3-16. MOTOR (ROLLER) ASSY (ROLLER)(M781)



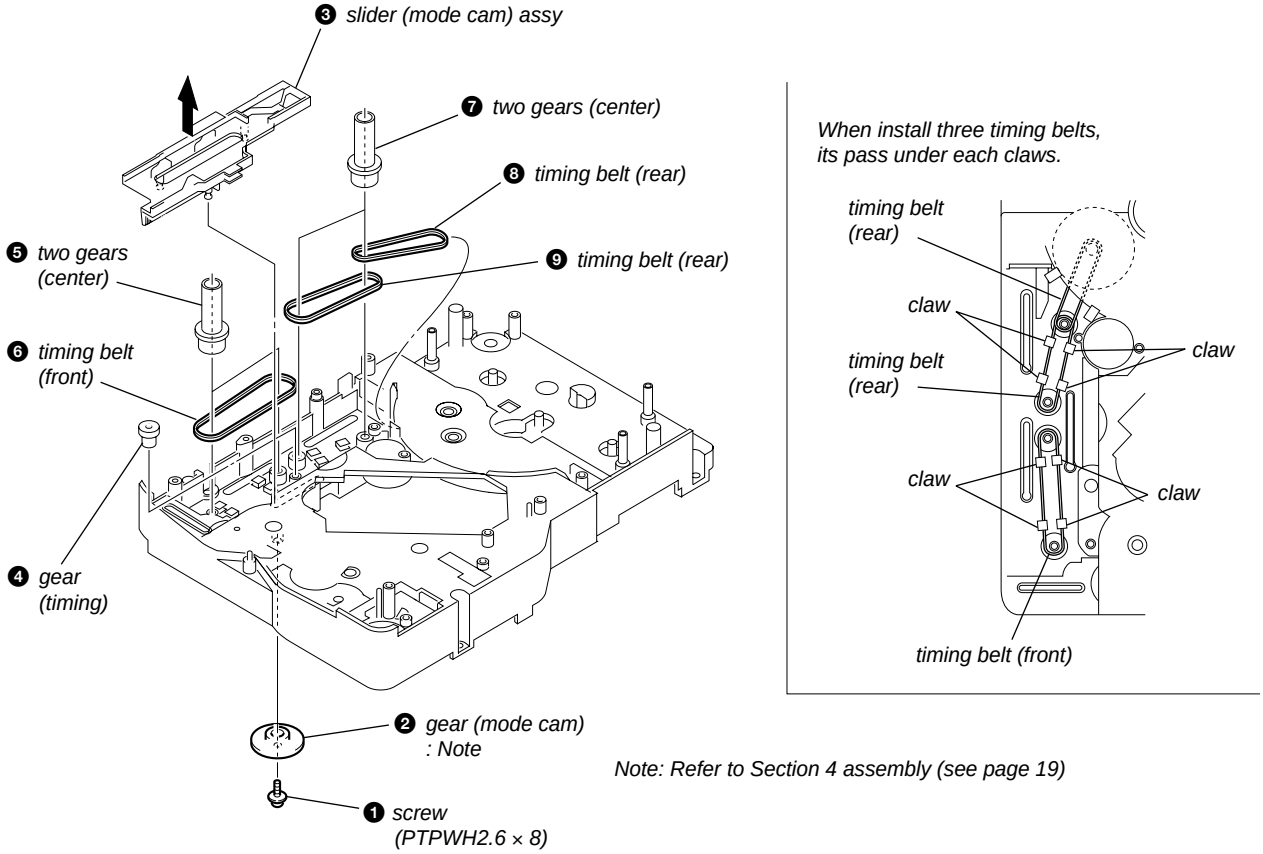
3-17. MOTOR (MODE) ASSY (MODE)(M771)



3-18. RUBBER ROLLER (SLIDER) ASSY

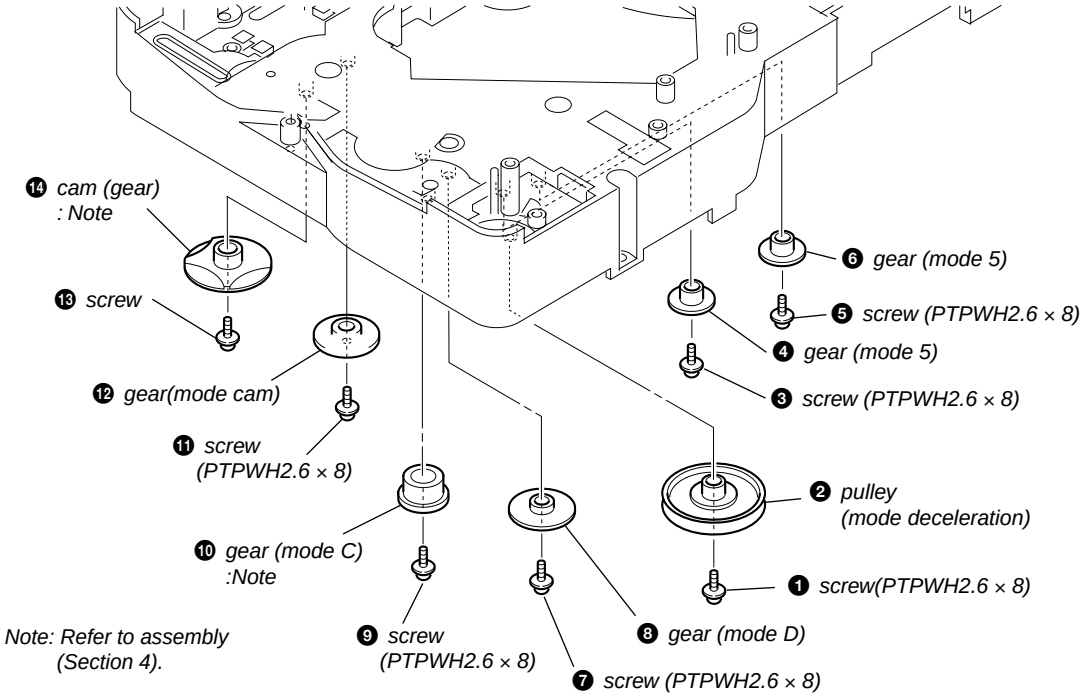


3-19. TIMING BELT (FRONT/REAR)



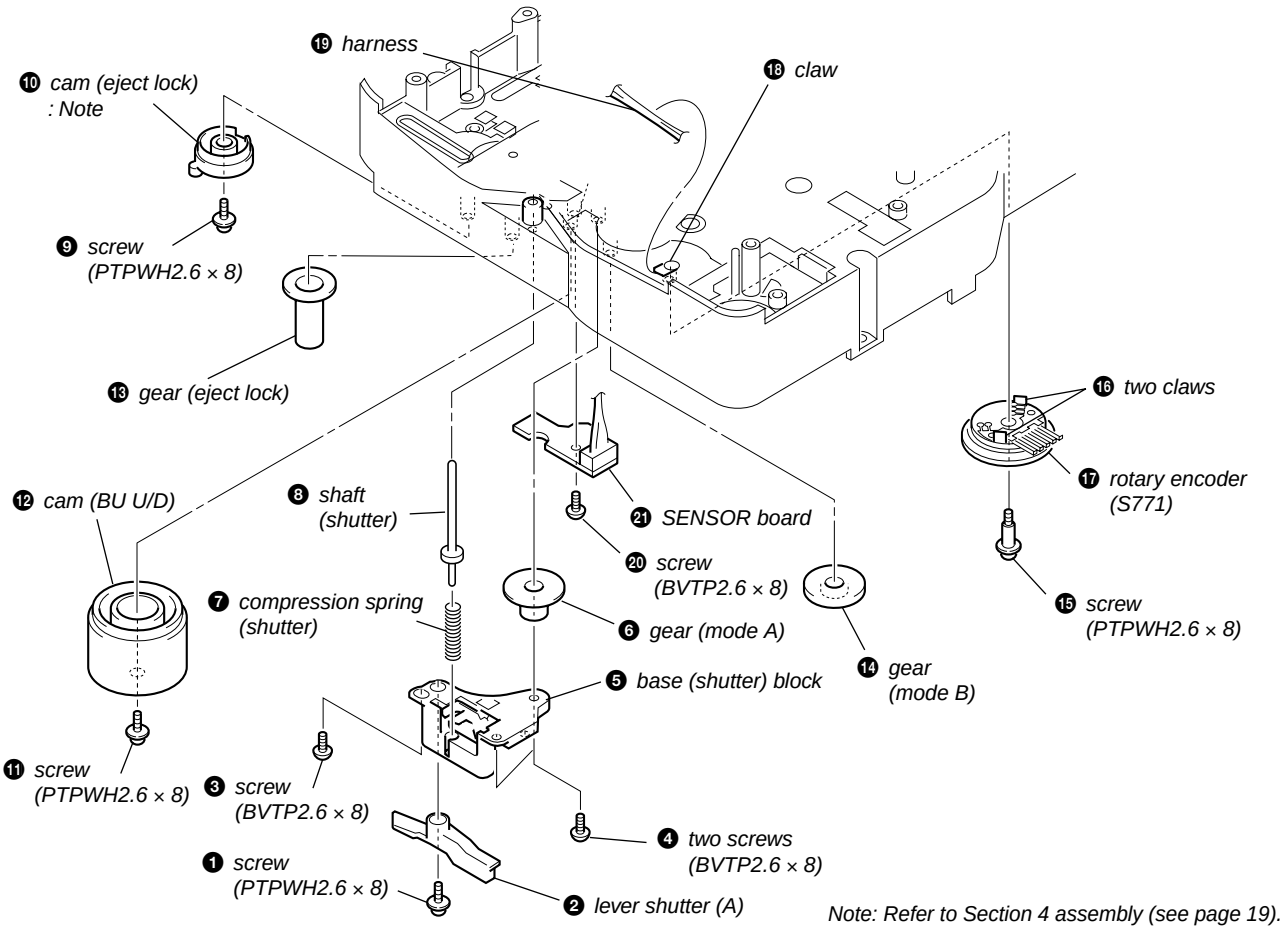
Note: Refer to Section 4 assembly (see page 19)

3-20. CAM (GEAR)


⓮ cam (gear) : Note
⓭ screw
⓬ gear(mode cam)
⓫ screw (PTPWH2.6 × 8)
❻ gear (mode 5)
❺ screw (PTPWH2.6 × 8)
❹ gear (mode 5)
❸ screw (PTPWH2.6 × 8)
❷ pulley (mode deceleration)
❶ screw(PTPWH2.6 × 8)
⓾ gear (mode C) :Note
❾ screw (PTPWH2.6 × 8)
❽ gear (mode D)
❼ screw (PTPWH2.6 × 8)

Note: Refer to assembly (Section 4).

3-21. SENSOR BOARD



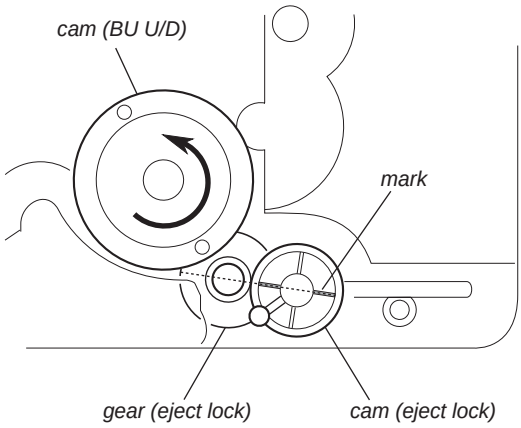
Note: Refer to Section 4 assembly (see page 19).

SECTION 4
ASSEMBLY

• This set can be assembled in the order shown below.

4-1. HOW TO INSTALL THE CAM (EJECT LOCK)

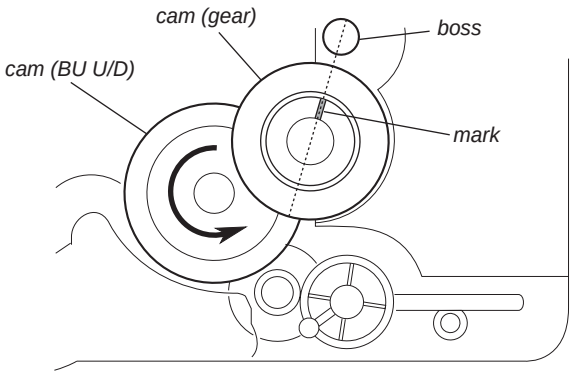
❶ *Rotate the cam (BU U/D) fully in the direction of arrow.*
❷ *Engage the gear (eject lock) and the gear of the cam (eject lock) aligning the mark with the center of the gear (eject lock).*



– bottom view • front –

4-2. HOW TO INSTALL THE CAM (GEAR)

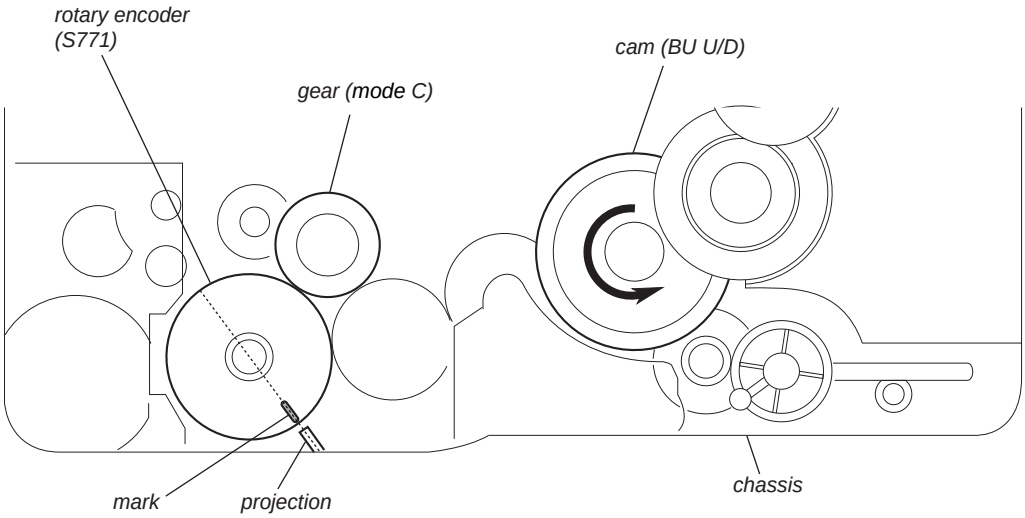
❶ *Check that the cam (BU U/D) can not be rotated in the direction of arrow.*
❷ *Align the mark on the cam (gear) with the boss as shown in the figure and install the cam (gear).*



– bottom view • front –

4-3. HOW TO INSTALL THE GEAR (MODE C)

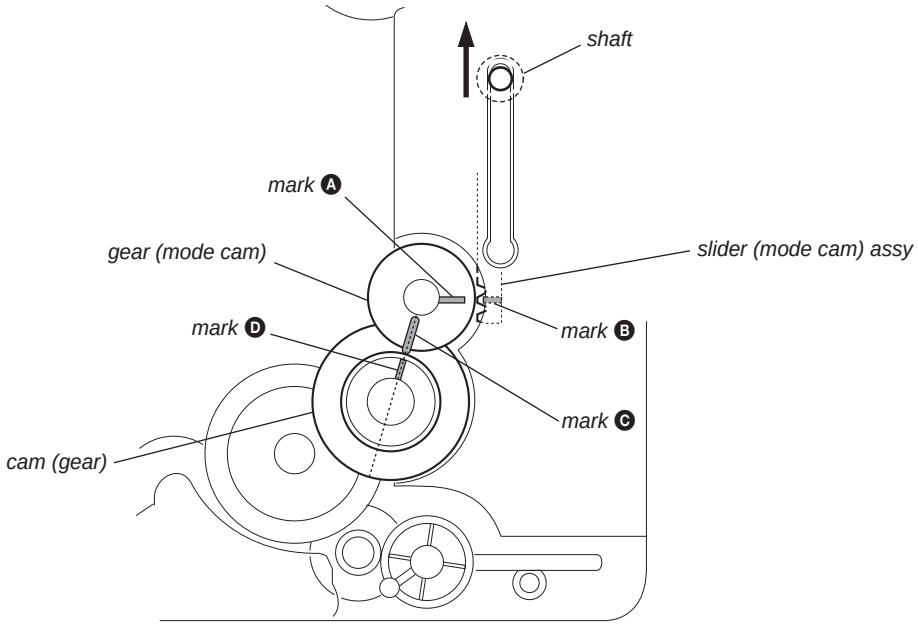
❶ *Align the mark on the rotary encoder (S771) with the projection of the assy.*
❷ *Check that the cam (BU U/D) can not be rotated in the direction of arrow.*
❸ *Install the gear (mode C)*



– bottom view • front –

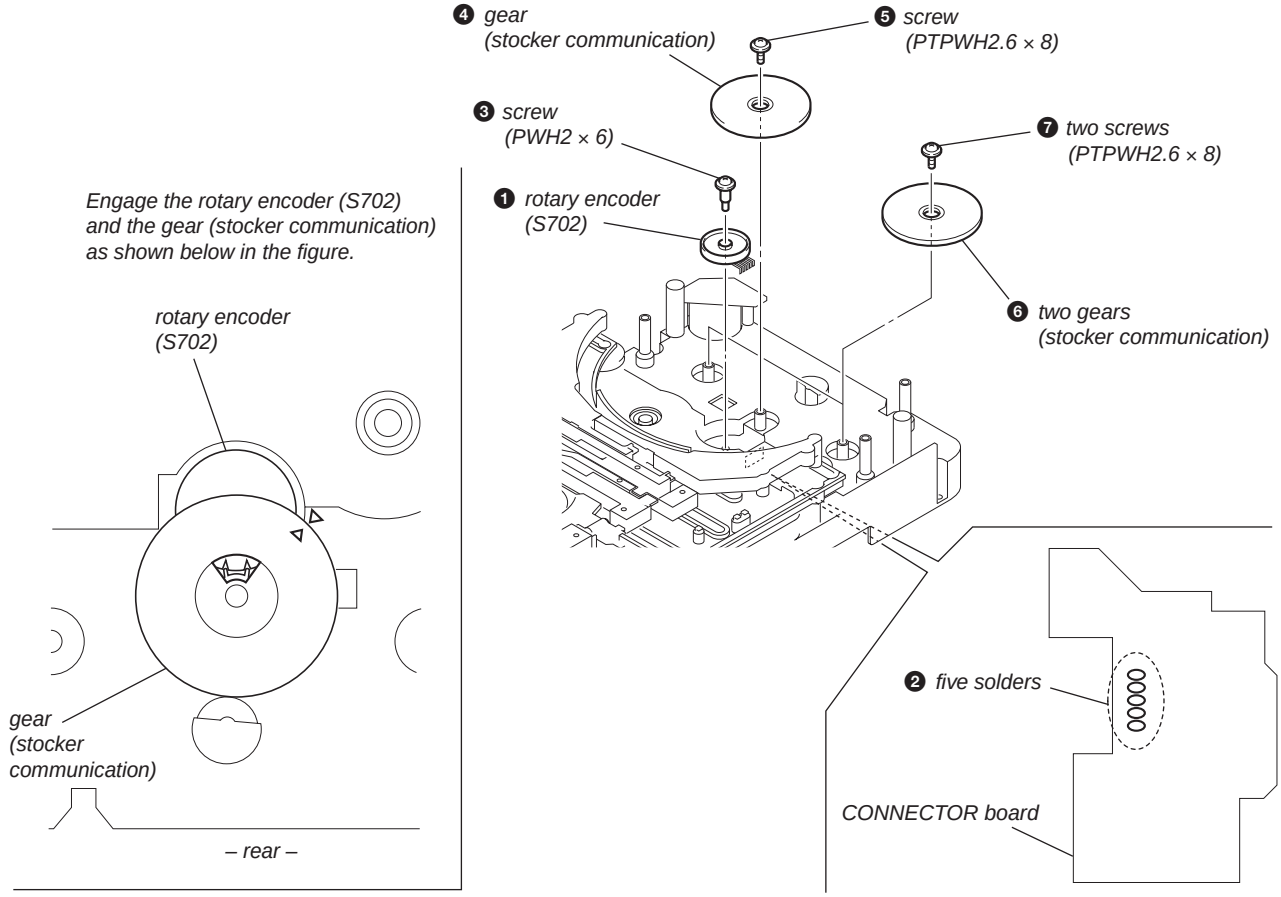
4-4. HOW TO INSTALL THE GEAR (MODE CAM)

❶ *Slide the shaft in the direction of arrow.*
❷ *Align mark Ⓐ on the gear (mode cam) with mark Ⓑ on the slider (mode cam) assy, then install the gear (mode cam).*
❸ *Check that mark Ⓒ on the gear (mode cam) is in alignment with mark Ⓓ on the cam (gear).*

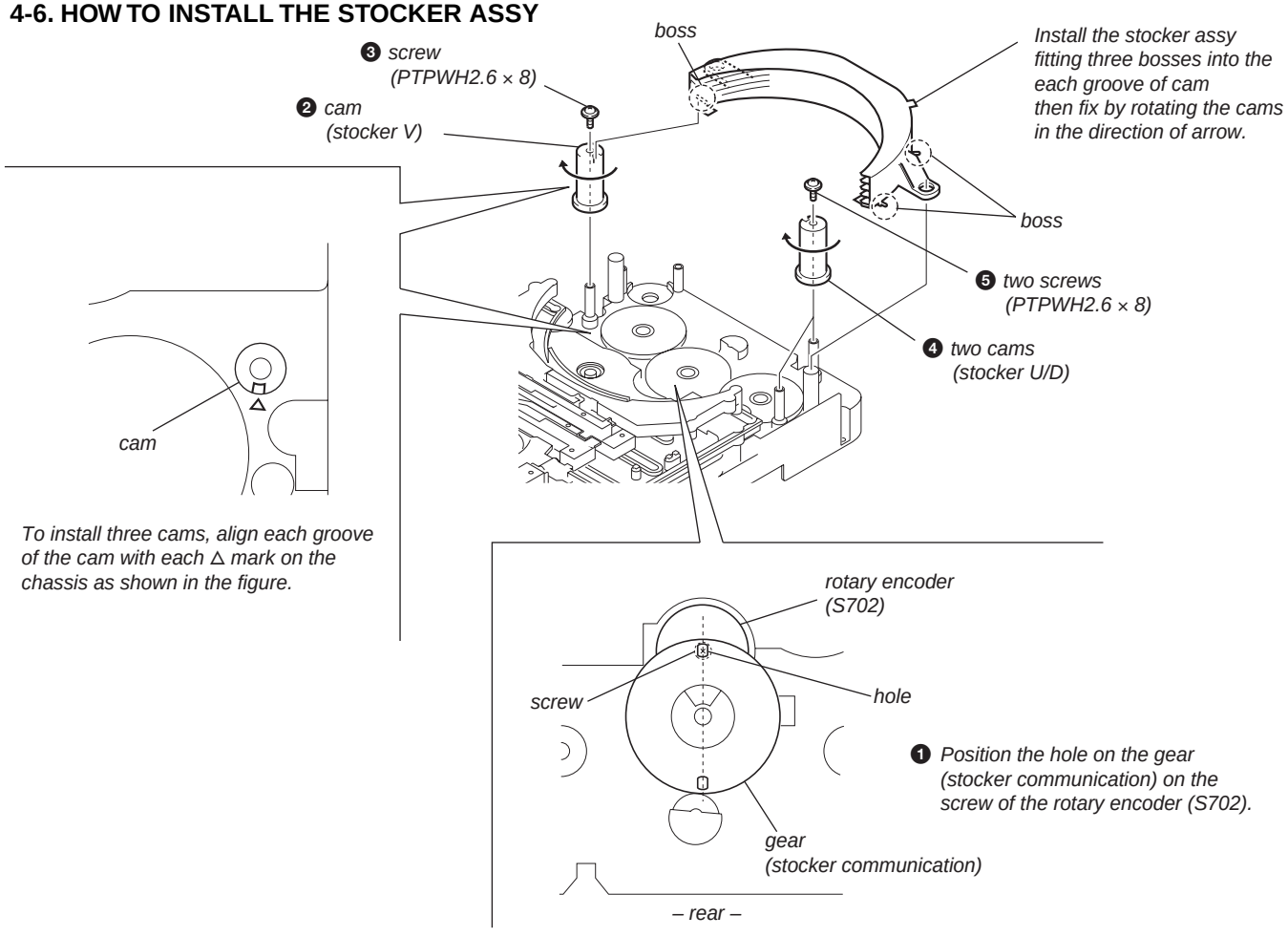


– bottom view • front –

4-5. HOW TO INSTALL THE ROTARY ENCODER (S702), GEAR (STOCKER COMMUNICATION)



4-6. HOW TO INSTALL THE STOCKER ASSY


❸ screw
(PTPWH2.6 × 8)
❷ cam
(stocker V)
boss
Install the stocker assy fitting three bosses into the each groove of cam then fix by rotating the cams in the direction of arrow.
boss
❺ two screws
(PTPWH2.6 × 8)
❹ two cams
(stocker U/D)
cam
To install three cams, align each groove of the cam with each △ mark on the chassis as shown in the figure.
rotary encoder
(S702)
screw
hole
❶ Position the hole on the gear (stocker communication) on the screw of the rotary encoder (S702).
gear
(stocker communication)
– rear –

SECTION 5
TEST MODE

[Cold Reset]

* The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press the I/⏻ button to turn off the main power.
2. While depressing the i-Bass button, press the I/⏻ button.
3. The fluorescent indicator tube does not display any message and the set is reset.

[Version Display Mode]

* The version of the microcomputer is displayed.

Procedure:

1. Press the I/⏻ button to turn the set on.
2. To enter the test mode, press three buttons FUNCTION, DISPLAY and i-Bass simultaneously. The version of the microcomputer is displayed.

[LCD Check]

* All fluorecent segments are tested.

Procedure:

1. Press the I/⏻ button to the set on.
2. While depressing the FUNCTION button, Press the DISPLAY button.
3. The message “CD TEST” is displayed, the initialization is performed.

Then all segments of the fluorecent indicator tube are turned on.

[CD Ship Mode]

* This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the I/⏻ button to turn the set on.
2. Set the FUNCTION to CD.
3. Press two buttons of ⏏ CD and ▶▶I simultaneously for more than two seconds.
4. After a message “MECHA LOCK” is displayed on the fluorescent indicator tube, the CD ship mode is set and the power is turned off.

[Disc Tray Lock]

The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the I/⏻ button to turn the set on.
2. Press two buttons of ■ and ⏏ CD simultaneously for five seconds.
3. The message “LOCKED” is displayed and the tray is locked.

Releasing Procedure :

1. Press two buttons of ■ and ⏏ CD simultaneously for five seconds again.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

Note : When “LOCKED” is displayed, the tray lock is not released by turning power on/off with the I/⏻ button.

[AMP Test]

* This mode is used to check the function of the amplifier.

Procedure:

1. Press the I/⏻ button to turn the set on.
2. While depressing the ■ button, Press the DISPLAY button.
3. The message “Volume MAX” is displayed, when the VOLUME knob is rotated clockwise. The message “Volume MIN” is displayed, when the VOLUME knob is rotated counterclockwise.
4. Each time the BASS or TREBLE knob is turned, the message “EQ MAX”, “EQ MIN” or “EQ FLAT” is displayed in this order.

[AM Channel Step 9 kHz/10kHz Selection Mode]

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step. (EXCEPT AEP,UK)

Procedure:

1. Set the FUNCTION to AM.
2. While depressing the ▶▶I button, press the I/⏻ button.
3. The channel step is changed over.

[CD Test Mode]

* This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

1. Press the I/⏻ button to turn the set on.
2. While depressing the CD ▶II button, Press the DIRECTION button. The message “CD TEST” is displayed.
3. With the CD in stop status, press the ▶▶I button to move the pickup to outside track, or press the I◀◀ button to inside track.
4. When press the CD ▶II button, normal playback is performed.
5. Each time the CD ▶II button is pressed during normal playback, the tracking servo is switched on or off.
6. To exit this mode, either change to other functions or extract an AC plug.

[CD Repeat 5 Times Limit Release Mode]

Procedure:

1. Press the I/⏻ button to turn the set on.
2. Select the FUNCTION to CD.
3. Press two buttons of ▶▶I and DIRECTION simultaneously.
4. The repeat all mark blinks and then repeat 5 times limit is released.

SECTION 6
MECHANICAL ADJUSTMENTS

• TAPE MECHANISM DECK SECTION

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback heads — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FWD back tension	CQ-102C	0.15 – 0.59 mN • m 2 to 6 g • cm (0.03 – 0.08 oz • inch)
REV	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
REV back tension	CQ-102RC	2.94 – 7.84 mN • m (30 to 79 g • cm) (0.42 – 1.11 oz • inch)
FF/REV	CQ-201B	6.86 – 17.64 mN • m (70 to 179 g • cm) (0.98 – 2.49 oz • inch)
FWD tension	CQ-403A	0.98 mN • m (10 • cm or more) (0.14 oz • inch or more)
REV tension	CQ-403R	0.98 mN • m (10 • cm or more) (0.14 oz • inch or more)

SECTION 7
ELECTRICAL ADJUSTMENTS

DECK SECTION | 0 dB = 0.775 V

Precaution

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

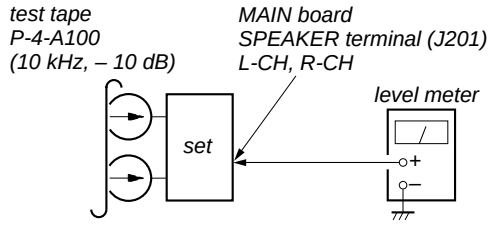
• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, – 10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Check

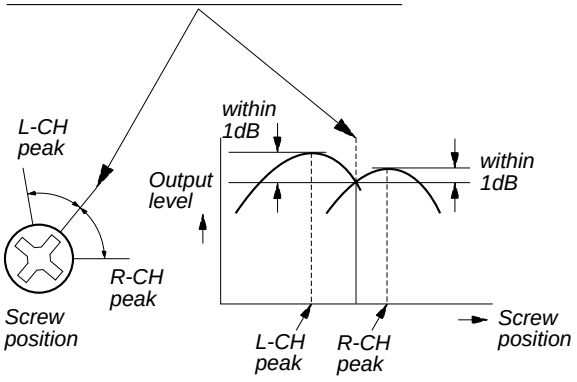
Record/Playback Head Azimuth Adjustment

Procedure:

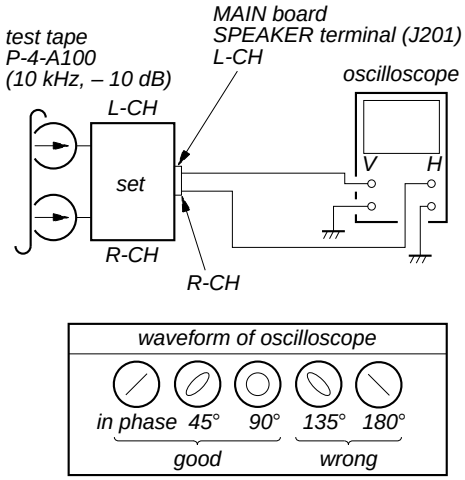
1. Mode: Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.

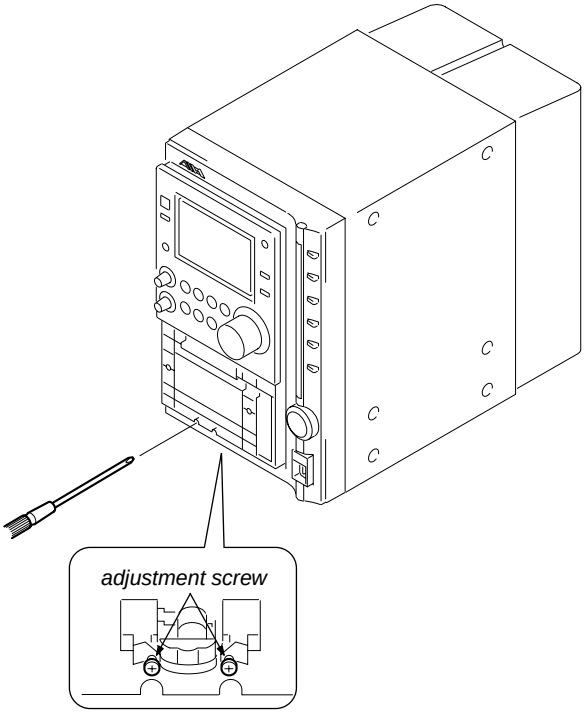


3. Mode: Playback



4. After the adjustments, apply suitable locking compound to the parts adjusted.

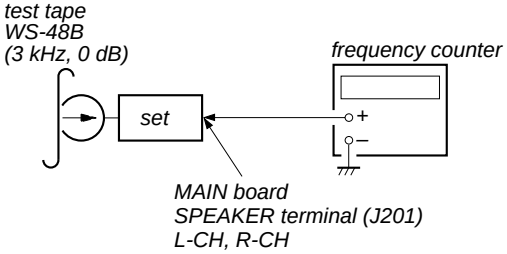
Adjustment Location: Record/Playback/Erase Head



Note: Refer to "3-6. Cassette Panel" (see page 10)

Tape Speed Check

Mode: Playback



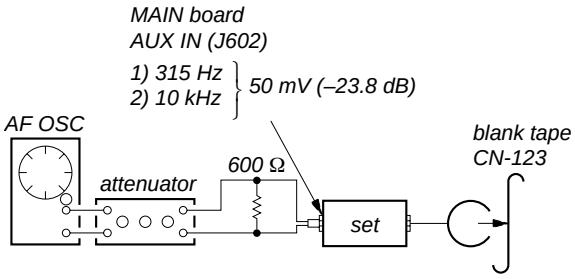
1. Insert the WS-48B into the deck.
2. Press the TAPE ◄► button on the deck.
3. Confirm that the frequency counter reads 3,000 ± 90 Hz.

Sample value of Wow and Flutter: 0.3% or less W.RMS (JIS)
(WS-48B)

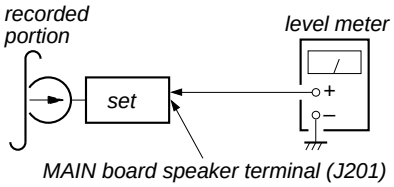
Record Bias Adjustment

Procedure:

1. Record mode



2. Mode: Playback
   i-Bass OFF
   BASS 0
   TREBLE 0



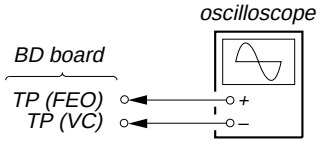
3. Confirm playback the signal recorded in step 1 become adjustment level as follows.

Adjustment level: Playback output of 315 Hz to playback output of 10 kHz: 0 ± 1.0 dB (0 ± 4.5mV).

CD SECTION

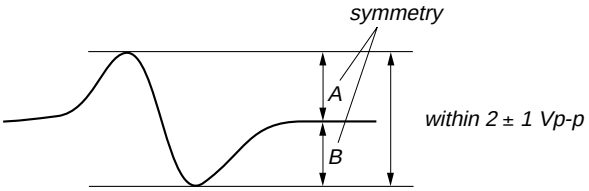
Note:
1. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
2. Use an oscilloscope with more than 10MΩ impedance.
3. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-curve Check
Connection:



Procedure:
1. Connect an oscilloscope to test point TP (FEO) and TP (VC) on the BD board.
2. While depressing the CD ▶II button, insert an AC plug.
3. Put the disc (YEDS-18) in and press the ■ button and actuate the focus search. (actuate the focus search when disc table is moving in and out)
4. Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2 ± 1 Vp-p.

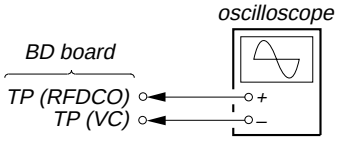
S-curve waveform



Note:
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

Checking Location: BD board (Conductor Side)

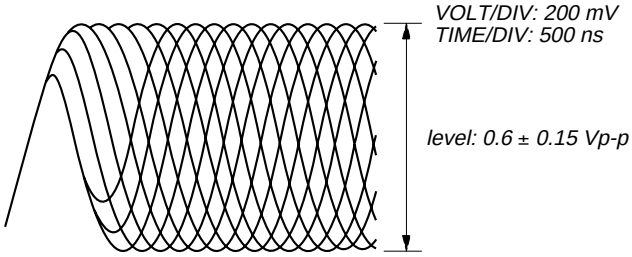
RFDC Level Check
Connection:



Procedure:
1. Connect an oscilloscope to test point (RFDCO) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFDC signal level is correct or not.

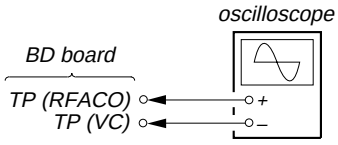
Note: A clear RFDC signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

RFDC signal waveform



Checking Location: BD board (Conductor side)

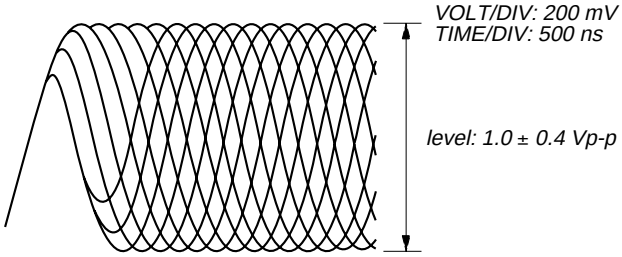
RFAC Level Check
Connection:



Procedure:
1. Connect an oscilloscope to test point TP (RFACO) and TP (VC) on the BD board.
2. Turn the power on.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Confirm that oscilloscope waveform is clear and check RFAC signal level is correct or not.

Note: A clear RFAC signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

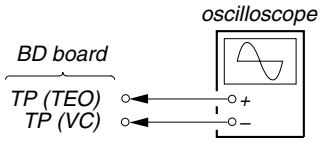
RFAC signal waveform



Checking Location: BD board (Conductor Side)

E-F Balance Adjustment

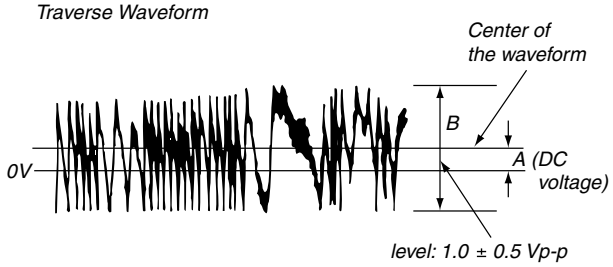
Connection:



(CD) button. (The tracking servo and the

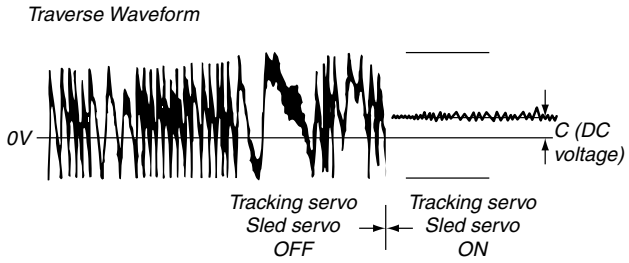
Procedure:

1. Connect an oscilloscpe to test point TP (TEO) and TP (VC) on the BD board.
2. AC is put in pushing CD ►II button to enter the CD test mode.
3. Put the disc (YEDS-18) in to playback the number five track.
4. Press the CD ►II button. If it plays, press the CD ►II button again. (The tracking servo and the sledding servo are turned OFF)
5. Check the level B of the oscilliscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
   Confirm the following :
   A/B x 100 = less than ± 10%



6. Press the CD ►II button. (The tracking servo and sledding servo are turned ON)
   Rotate RV101 on BD board and adjust the C (DC voltage) is almost equal to the A (DC voltage) in step 4.
7. To exit from this mode, turn the power off.

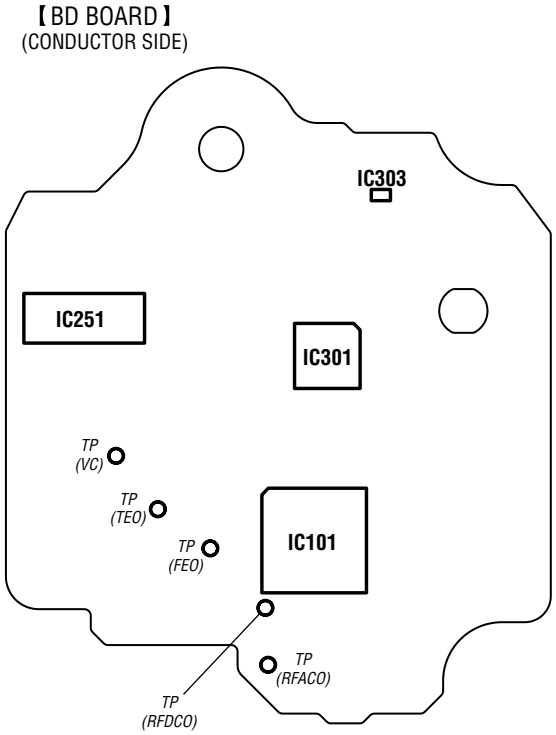
Notes:
- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.



Checking Location: BD board (Conductor Side)

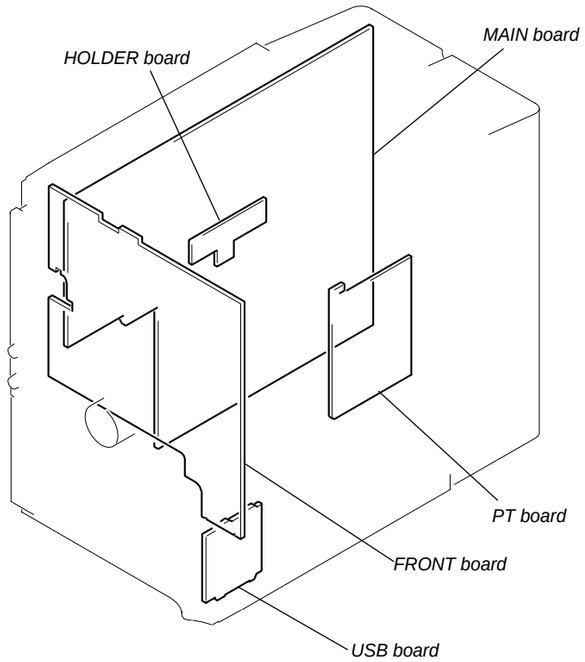
Checking Location:

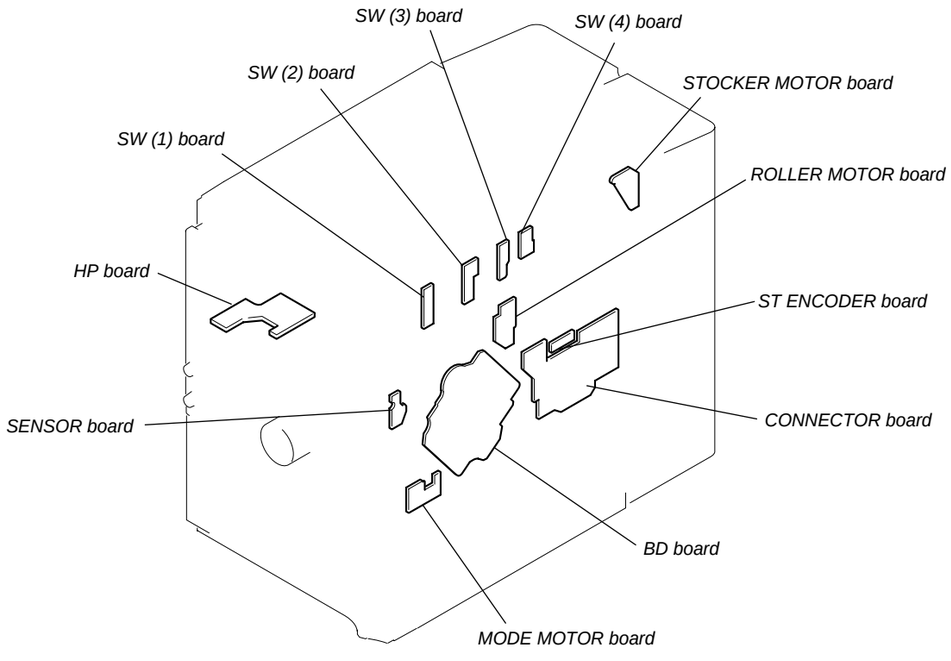
– BD BOARD (Conductor Side) –



SECTION 8
DIAGRAMS

• Circuit Boards Location





THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ✻ : Impossible to measure
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- : B+ Line.
- : B– Line.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : Power on
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER
  - : CD
  - : AUX
  - : PB (TAPE)
  - : REC (TAPE)
  - : USB
- Abbreviation
  CND : Canadian model
  E51 : Chilean and Peruvian model
  KR : Korean model
  SP : Singapore model

For printed wiring boards.

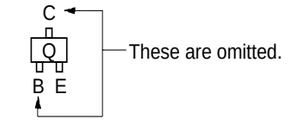
Note:

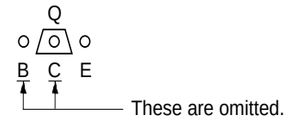
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- : Pattern from the side which enables seeing.

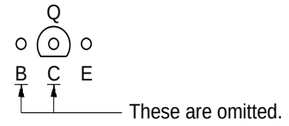
Caution:

Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

• Indication of transistor

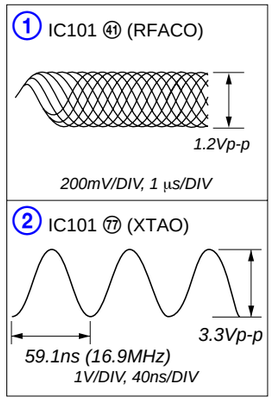




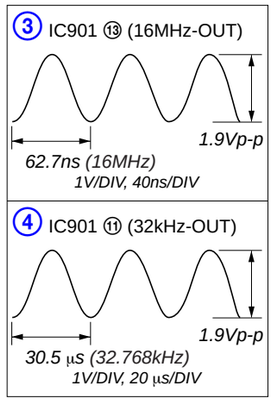


• Waveforms

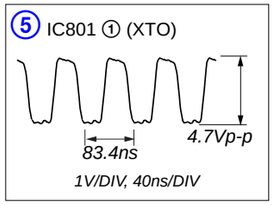
– BD Board –



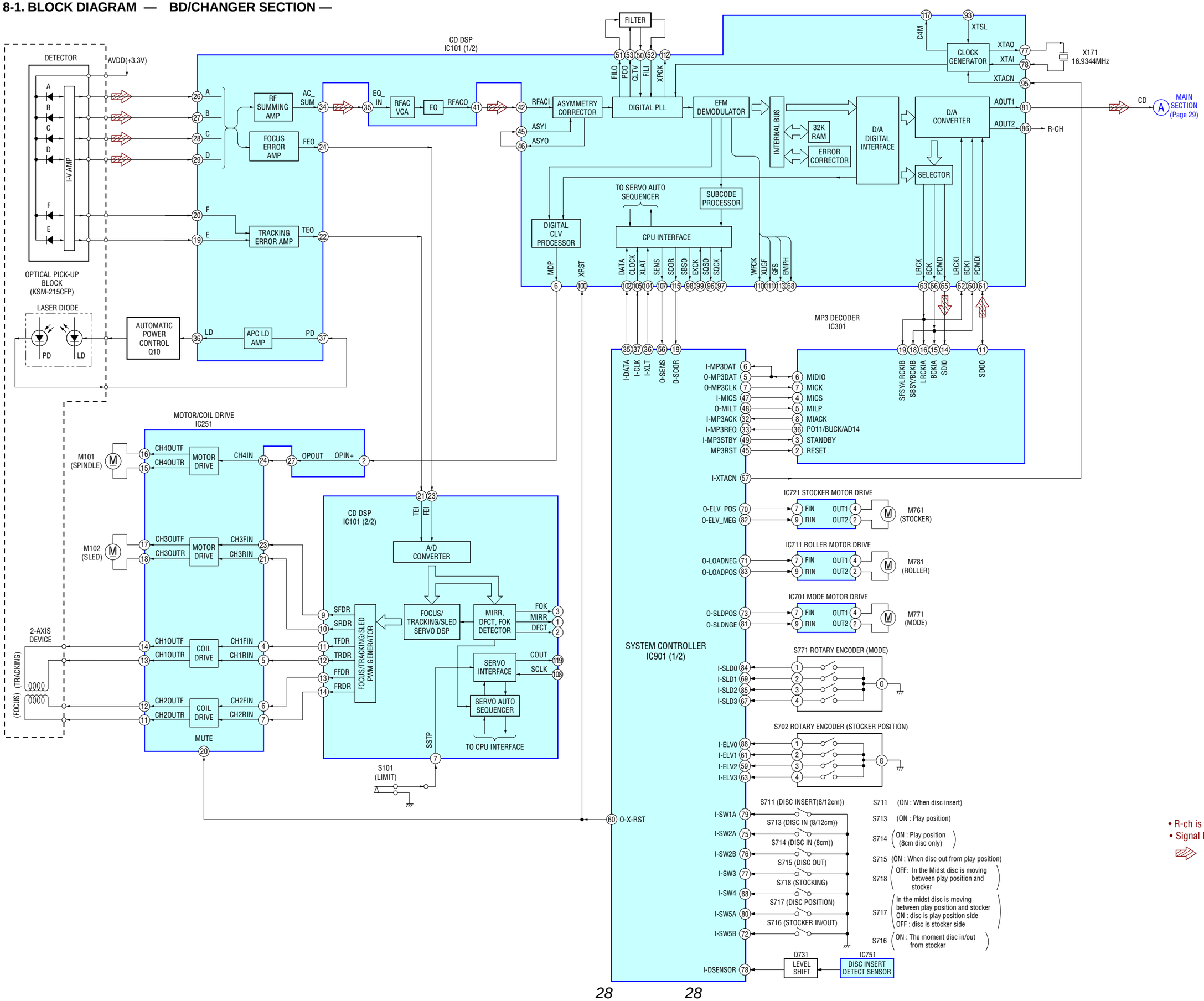
– MAIN Board –



– USB Board –

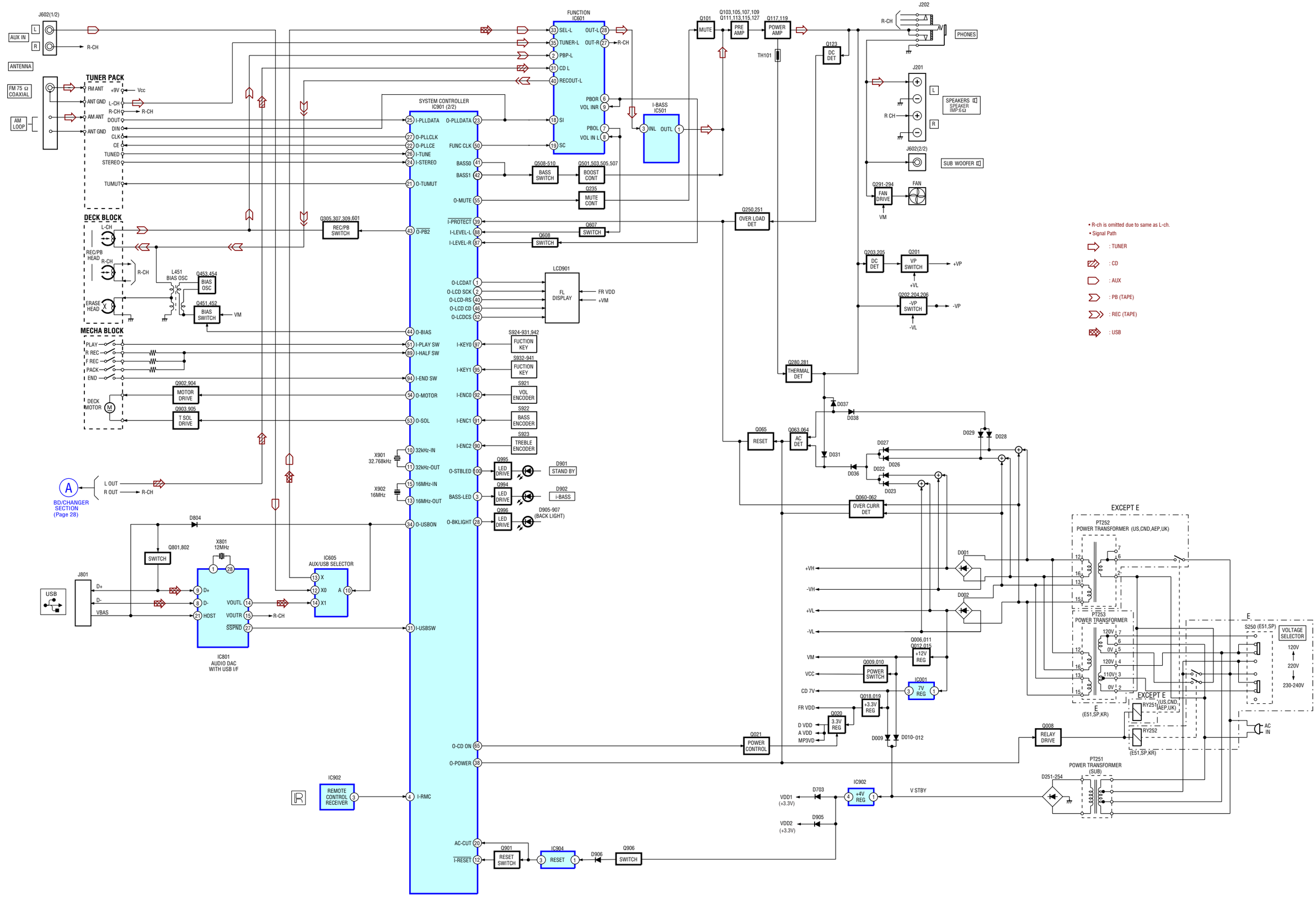


8-1. BLOCK DIAGRAM — BD/CHANGER SECTION —



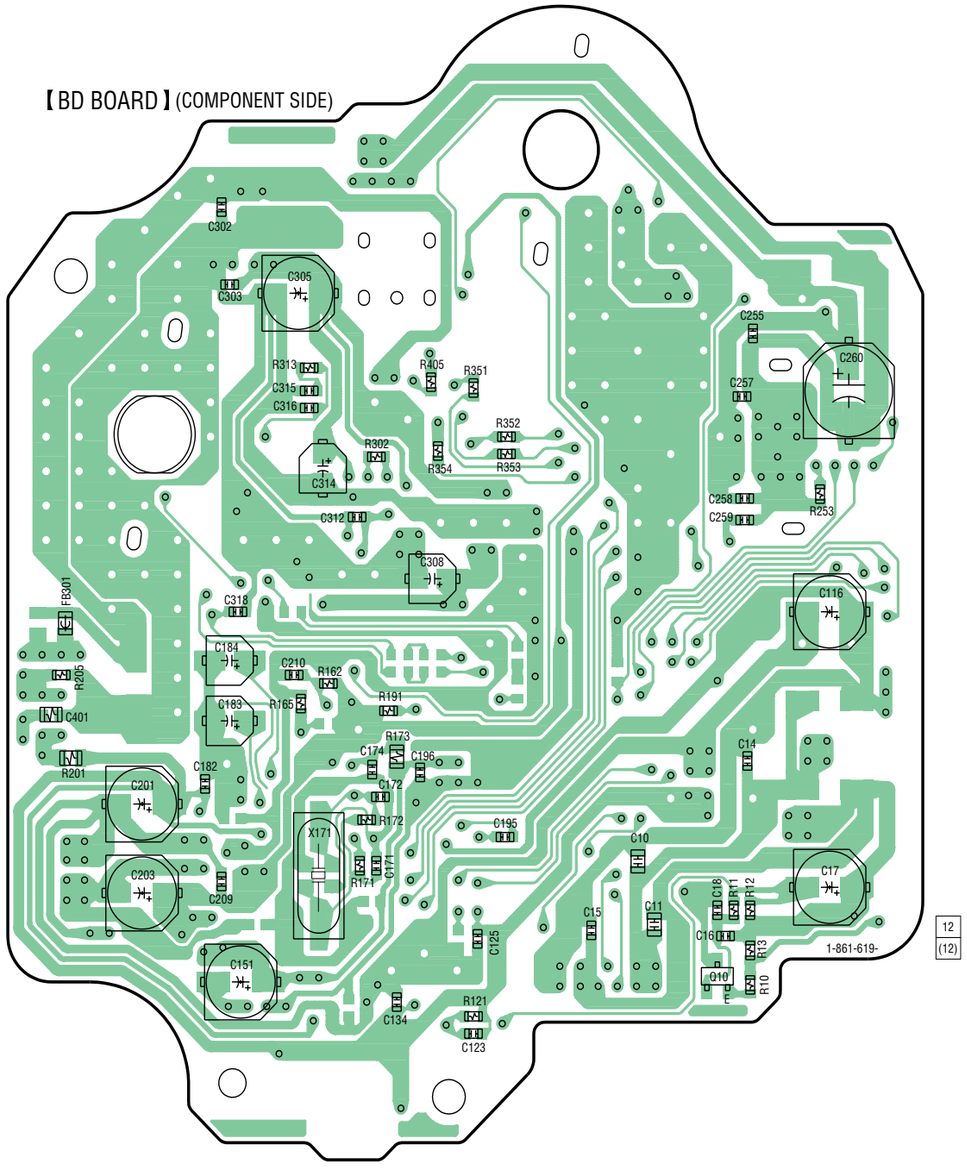
- R-ch is omitted due to same as L-ch.
- Signal Path
  : CD PLAY

— MAIN SECTION —

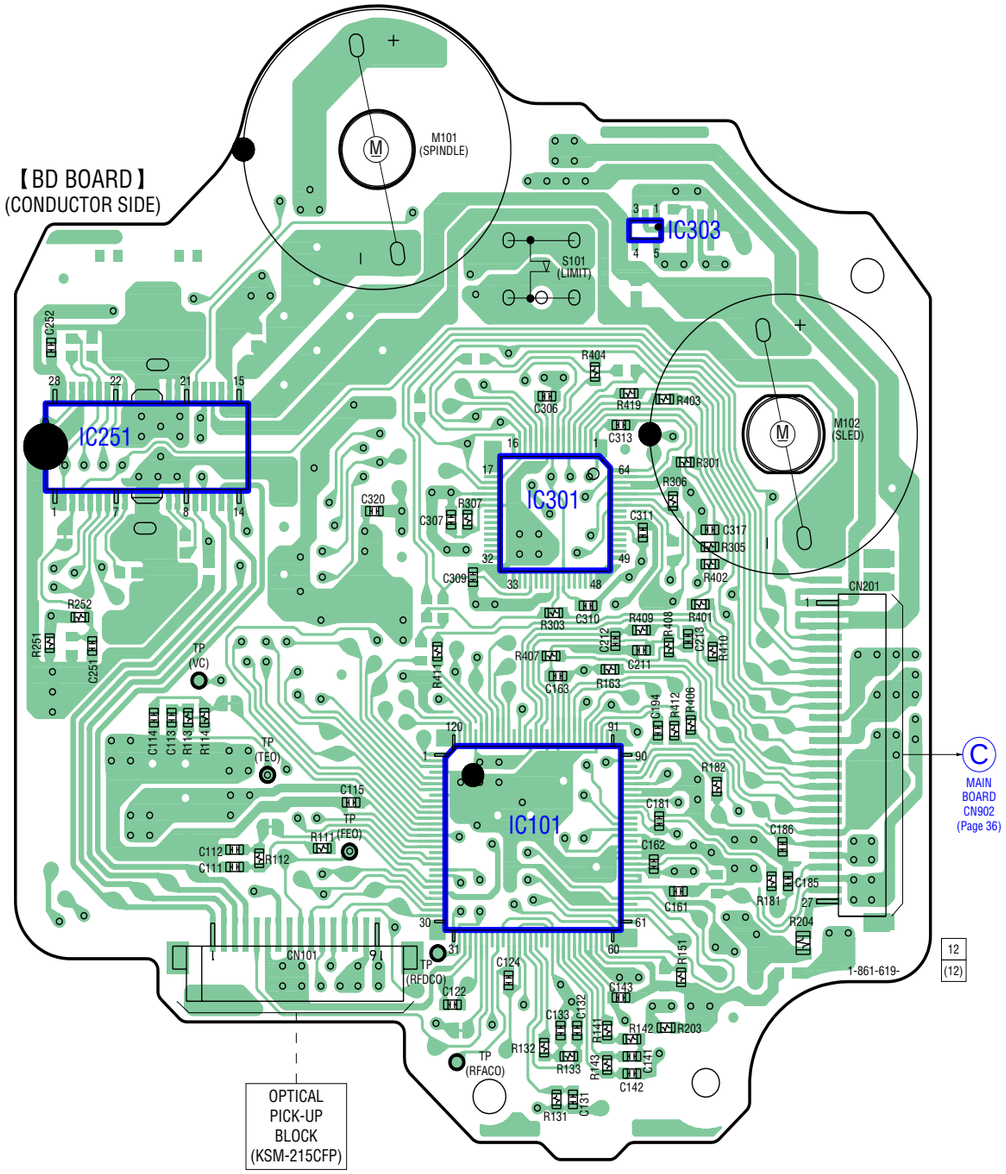


8-2. PRINTED WIRING BOARDS — BD SECTION — • See page 27 for Circuit Boards Location. • : Uses unleaded solder.

【BD BOARD】(COMPONENT SIDE)



【BD BOARD】
(CONDUCTOR SIDE)

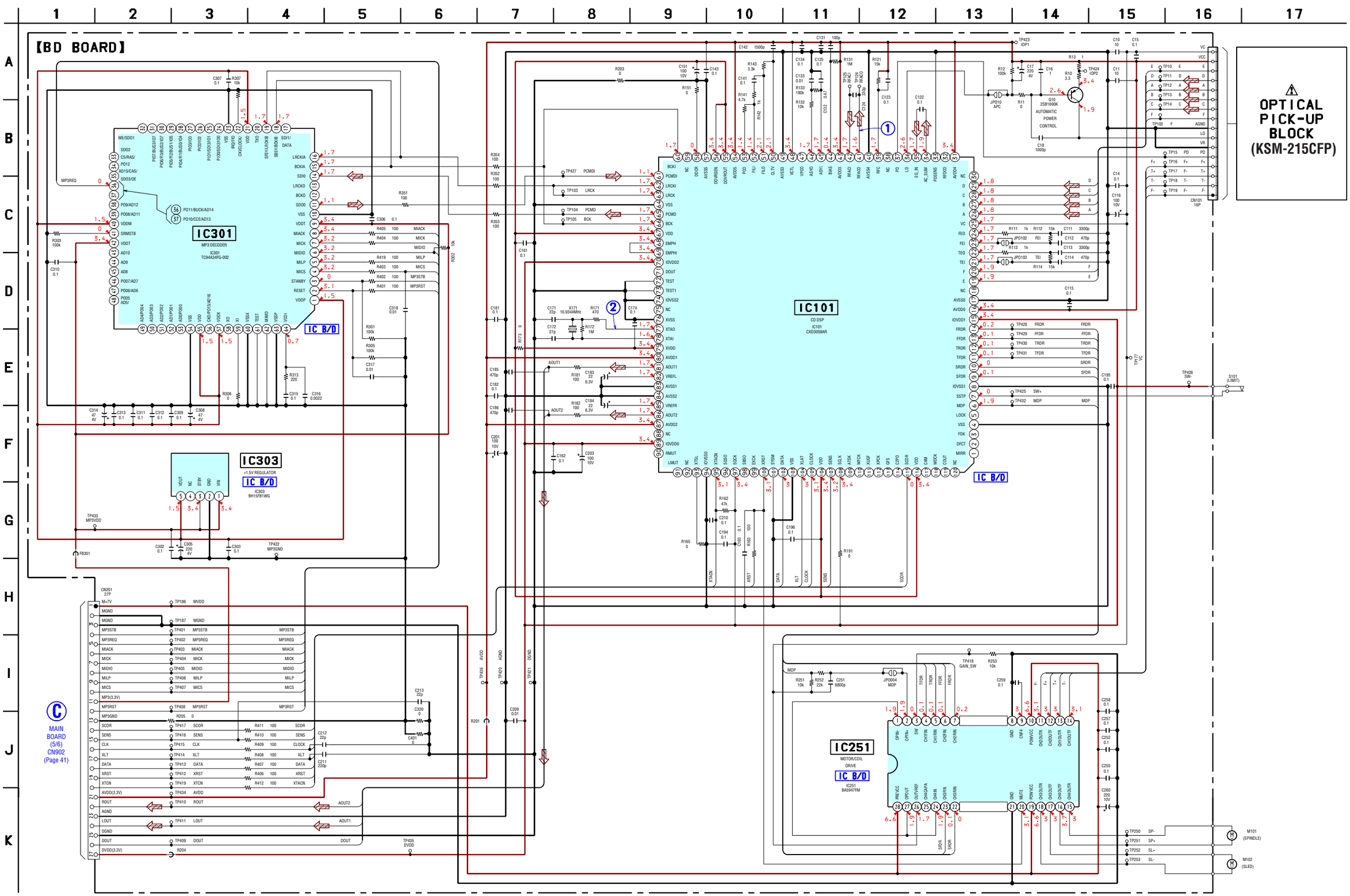


• **Semiconductor Location**

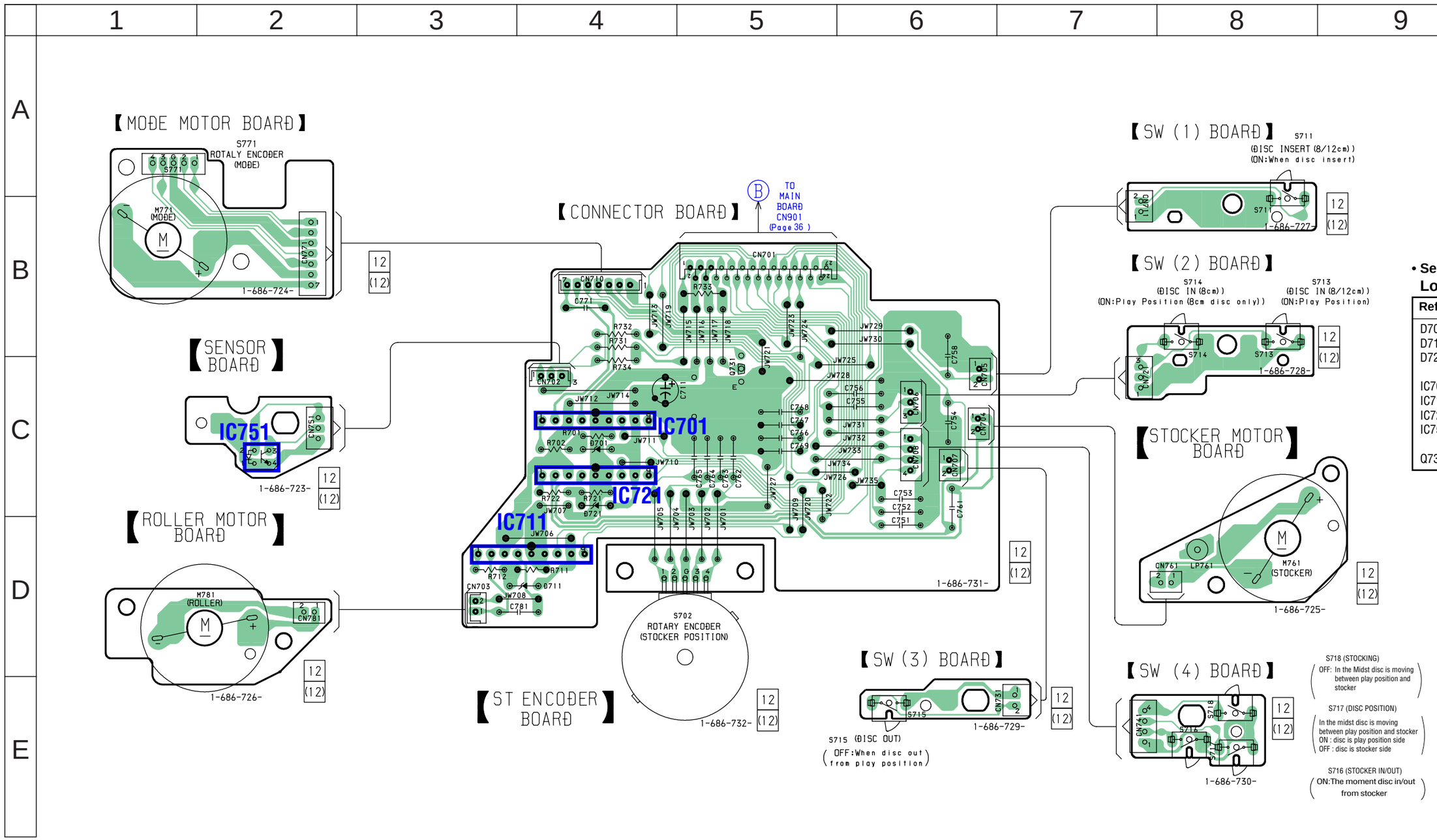
Ref. No.	Location
IC101	C-6
IC251	B-4
IC301	B-6
IC303	B-6
Q10	D-3

8-3. SCHEMATIC DIAGRAM — BD SECTION —

• See page 45, 46 and 47 for IC Block Diagrams. • See page 27 for Waveforms.



8-4. PRINTED WIRING BOARDS — CHANGER SECTION — • See page 27 for Circuit Boards Location. • : Uses unleaded solder.

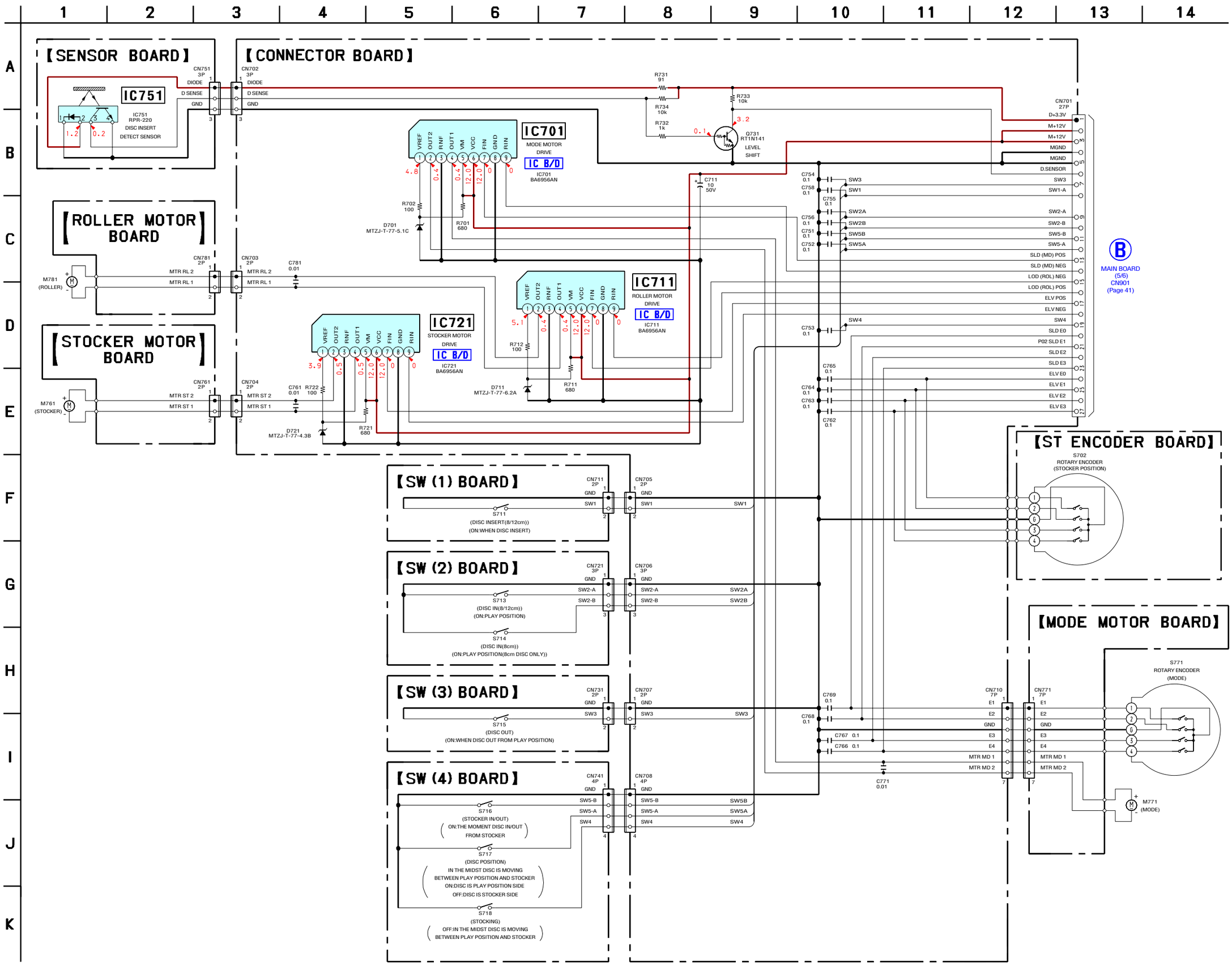


• **Semiconductor Location**

Ref. No.	Location
D701	C-4
D711	C-4
D721	C-4
IC701	C-4
IC711	D-4
IC721	C-4
IC751	C-2
Q731	B-5

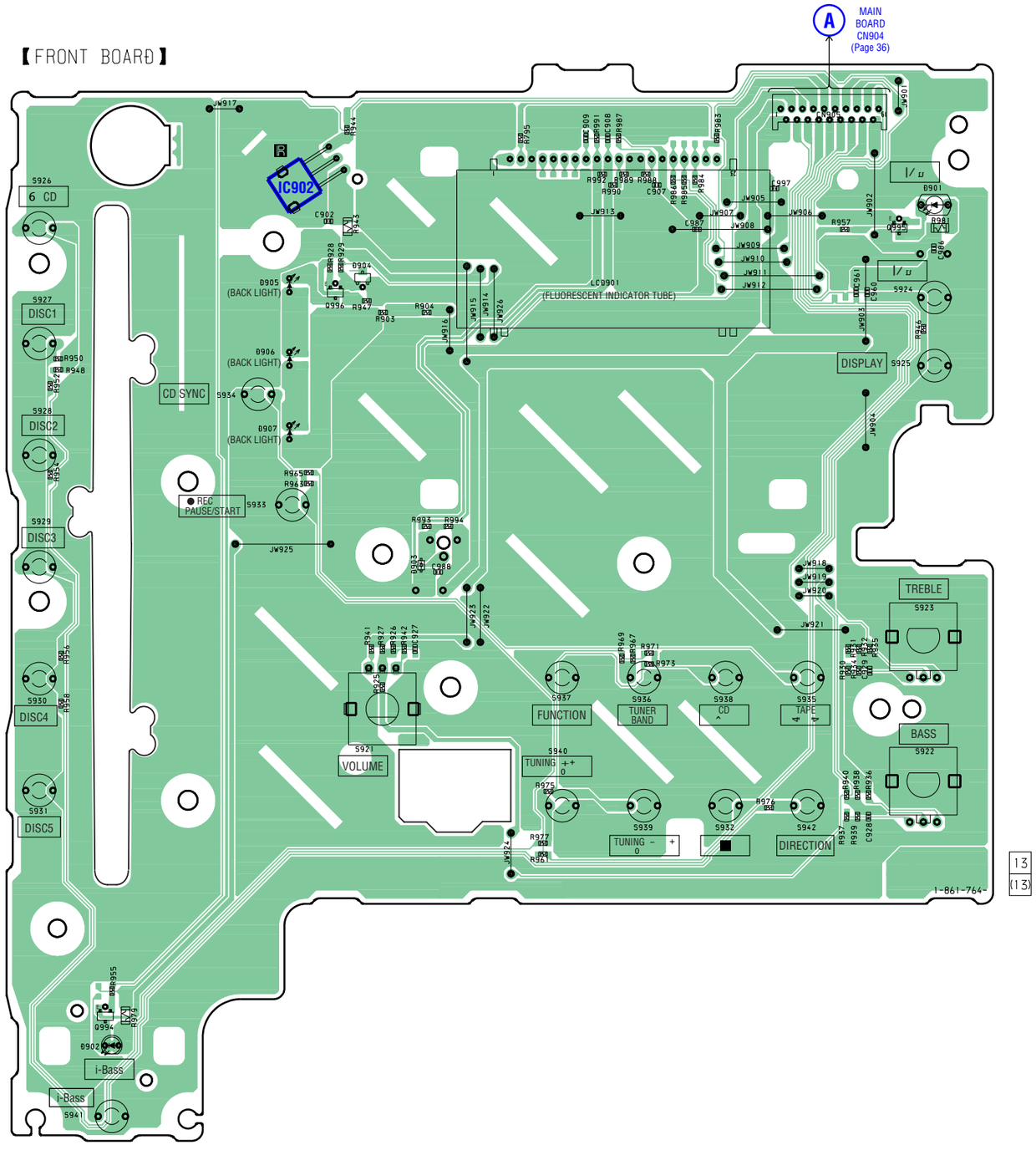
8-5. SCHEMATIC DIAGRAM — CHANGER SECTION —

• See page 48 for IC Block Diagrams.



8-6. PRINTED WIRING BOARDS — FRONT SECTION —

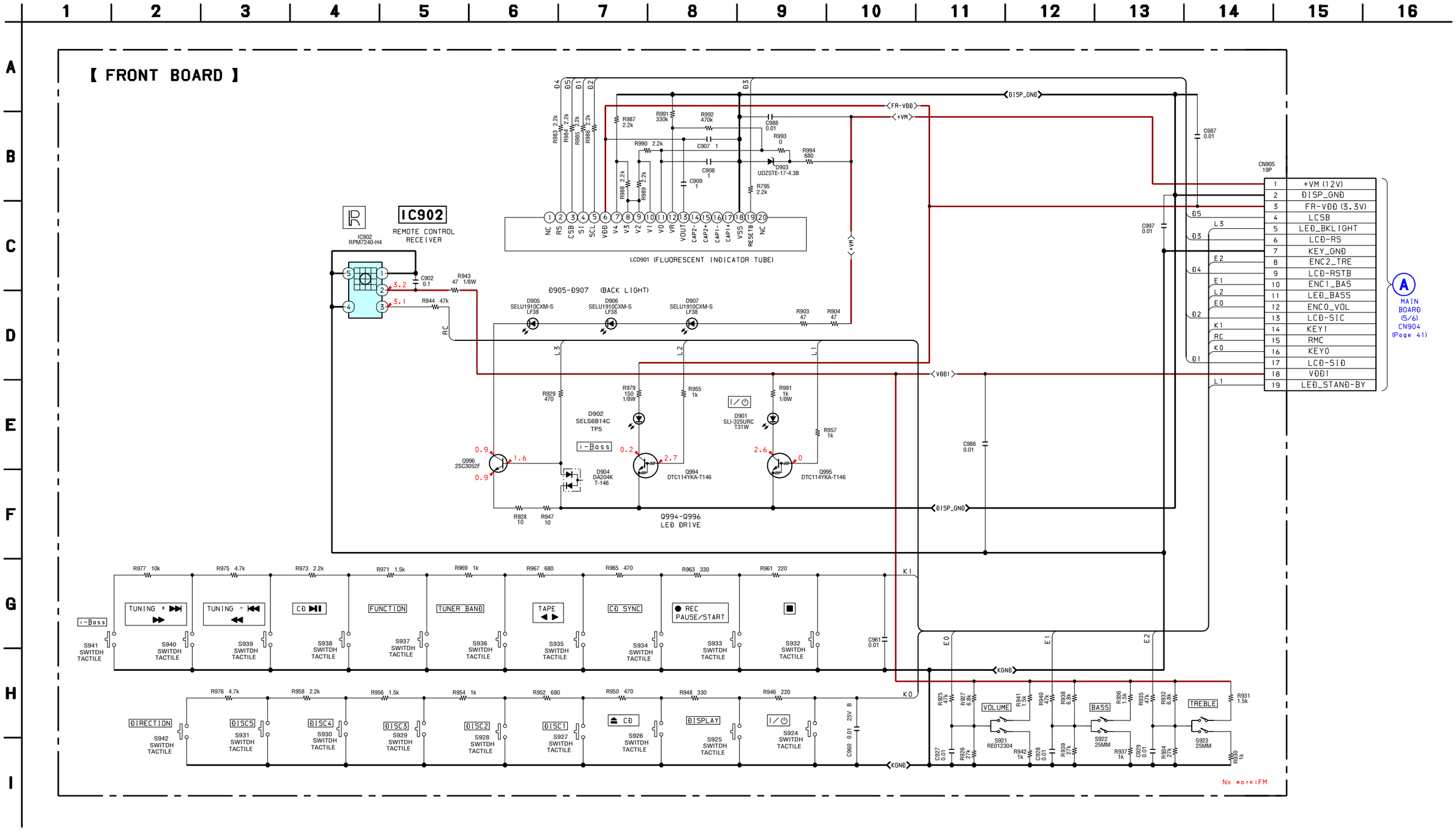
• See page 27 for Circuit Boards Location. • : Uses unleaded solder.



• **Semiconductor Location**

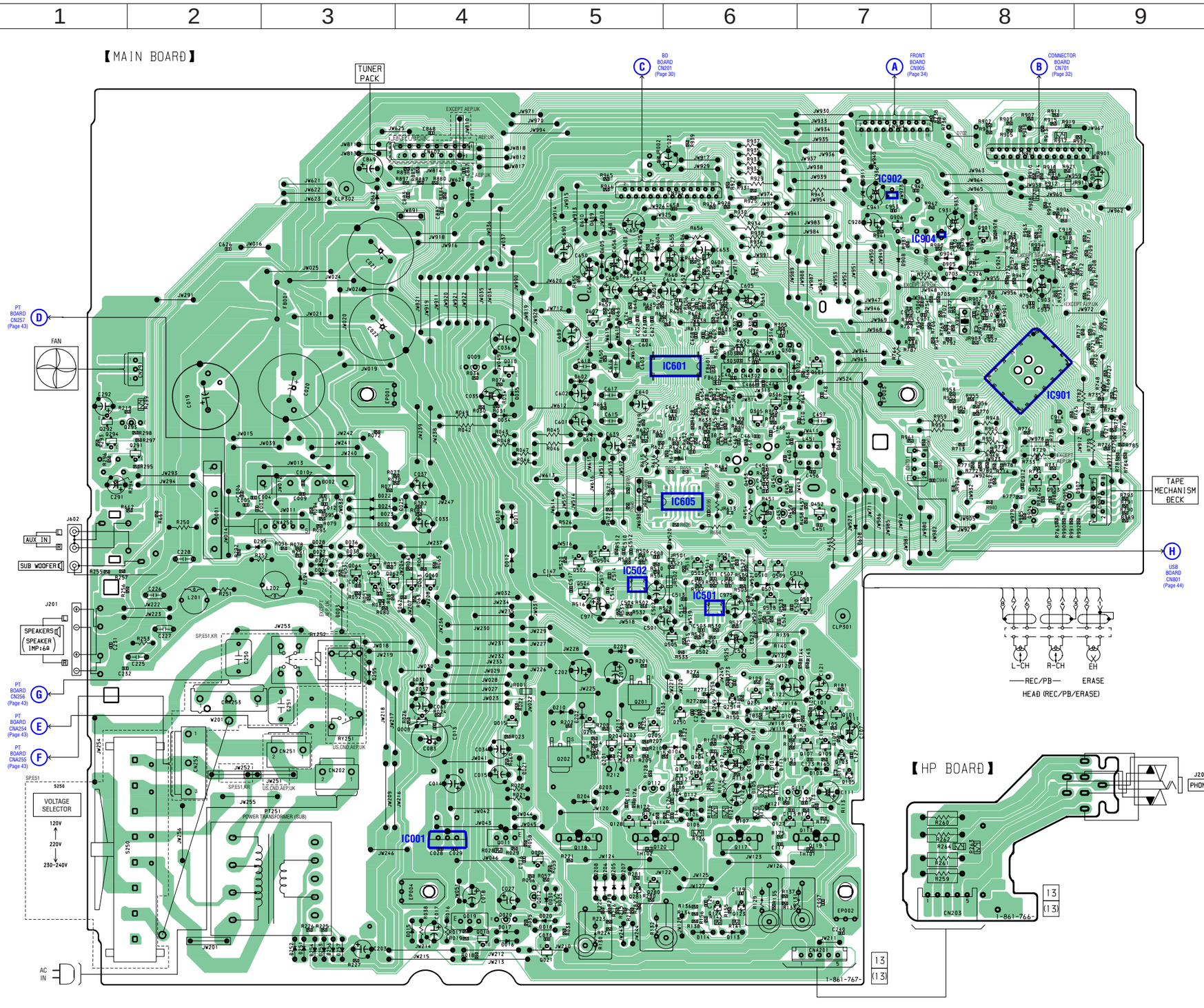
Ref. No.	Location
D901	B-6
D902	F-2
D903	D-3
D904	B-3
D905	B-2
D906	C-2
D907	C-2
IC902	B-3
Q994	F-2
Q995	B-6
Q996	B-3

8-7. SCHEMATIC DIAGRAM — FRONT SECTION —



8-8. PRINTED WIRING BOARDS — MAIN SECTION —

• See page 27 for Circuit Boards Location. • : Uses unleaded solder.



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D001	D-2	D295	E-3	Q109	F-7
D002	D-3	D301	C-6	Q110	F-6
D003	E-3	D302	C-7	Q111	F-6
D010	D-4	D501	E-6	Q112	F-5
D011	D-4	D502	E-6	Q113	G-6
D012	E-4	D601	D-5	Q114	G-5
D015	G-4	D602	C-5	Q117	G-6
D016	G-4	D603	B-5	Q118	G-5
D017	G-4	D604	B-5	Q119	G-7
D020	G-5	D605	B-5	Q120	G-5
D021	F-4	D606	B-6	Q123	G-6
D022	D-3	D607	D-7	Q124	G-6
D023	D-3	D608	D-7	Q127	G-6
D024	D-3	D609	B-5	Q128	G-5
D025	D-4	D610	B-5	Q201	F-5
D026	E-3	D703	B-8	Q202	F-5
D027	E-3	D862	B-3	Q203	F-5
D028	E-3	D901	B-8	Q204	F-5
D029	E-3	D904	B-8	Q205	F-5
D030	G-5	D905	B-8	Q206	F-5
D031	E-4	D907	D-8	Q235	F-6
D034	C-4	D908	B-7	Q250	F-6
D035	C-4	D911	B-7	Q251	F-6
D036	E-3			Q280	G-5
D037	E-4	IC001	G-4	Q281	G-5
D038	E-3	IC501	E-6	Q291	D-2
D101	F-6	IC502	E-5	Q292	D-1
D102	F-6	IC601	C-6	Q293	D-2
D103	F-7	IC605	D-6	Q294	D-1
D104	F-6	IC901	C-8	Q305	C-6
D105	F-6	IC902	B-7	Q306	C-6
D106	F-6	IC904	B-8	Q307	C-6
D107	F-6			Q308	C-6
D108	G-6	Q006	G-4	Q309	C-6
D111	F-6	Q008	F-4	Q451	D-6
D112	F-6	Q009	C-4	Q452	D-7
D113	G-6	Q010	C-4	Q453	D-6
D114	G-6	Q011	G-4	Q454	D-6
D201	F-5	Q012	G-4	Q501	E-6
D202	F-5	Q015	F-4	Q502	E-5
D203	F-5	Q018	G-4	Q503	E-6
D204	F-5	Q019	G-4	Q504	E-5
D205	G-5	Q020	G-4	Q505	E-6
D206	G-5	Q021	G-5	Q506	E-5
D207	G-5	Q060	E-4	Q507	E-7
D208	G-5	Q061	E-3	Q508	E-6
D209	E-5	Q062	E-3	Q509	E-6
D210	F-5	Q063	E-4	Q510	E-6
D249	F-6	Q064	E-3	Q601	C-7
D250	E-6	Q065	E-3	Q607	C-5
D251	G-3	Q101	F-7	Q608	B-6
D252	G-3	Q102	F-6	Q901	B-8
D253	G-3	Q103	F-7	Q902	D-8
D254	G-3	Q104	F-6	Q903	D-8
D255	E-3	Q105	F-7	Q904	D-8
D256	G-3	Q106	F-6	Q905	D-8
D257	G-3	Q107	F-7	Q906	B-7
D294	E-3	Q108	F-6		

8-9. SCHEMATIC DIAGRAM — MAIN SECTION 1 —

• See page 48 for IC Block Diagrams.

【 MAIN BOARD 】(1/6)

IC B/D

IC601
FUNCTION

IC605
AUX/USB SELECTOR

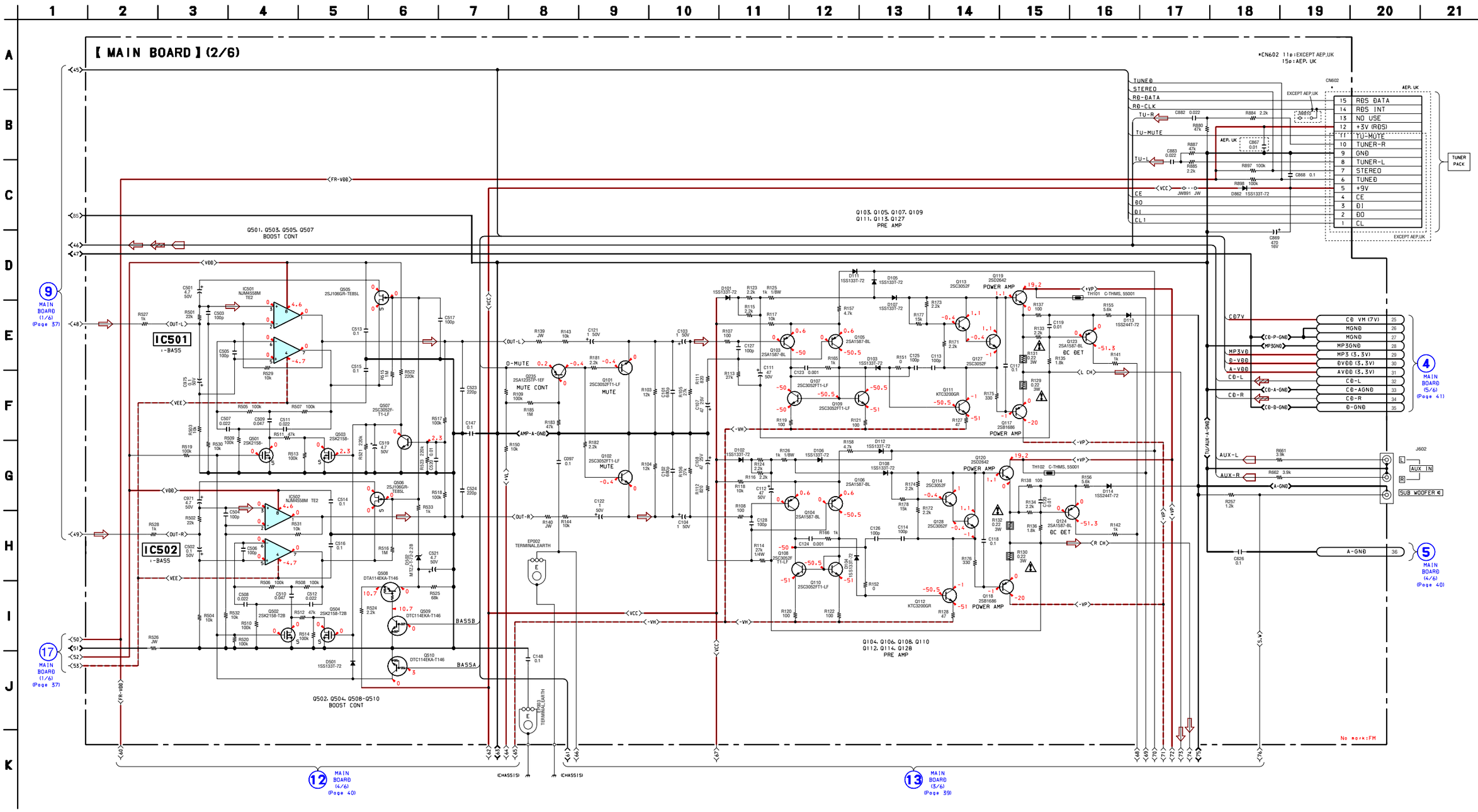
Q305-Q309
REC/PB
SWITCH

Q451-Q454
BIAS OSC

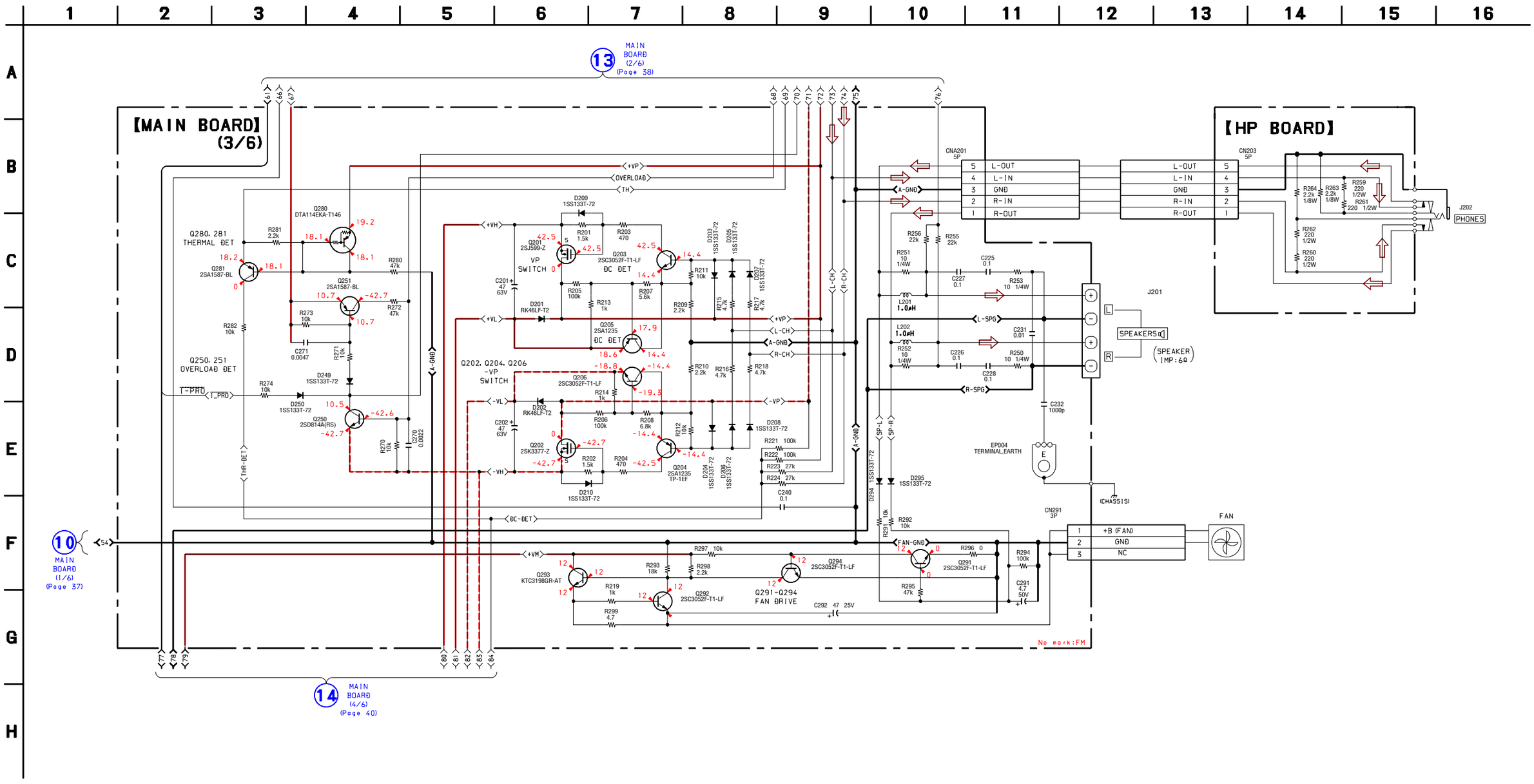
SWITCH

No mark:FM

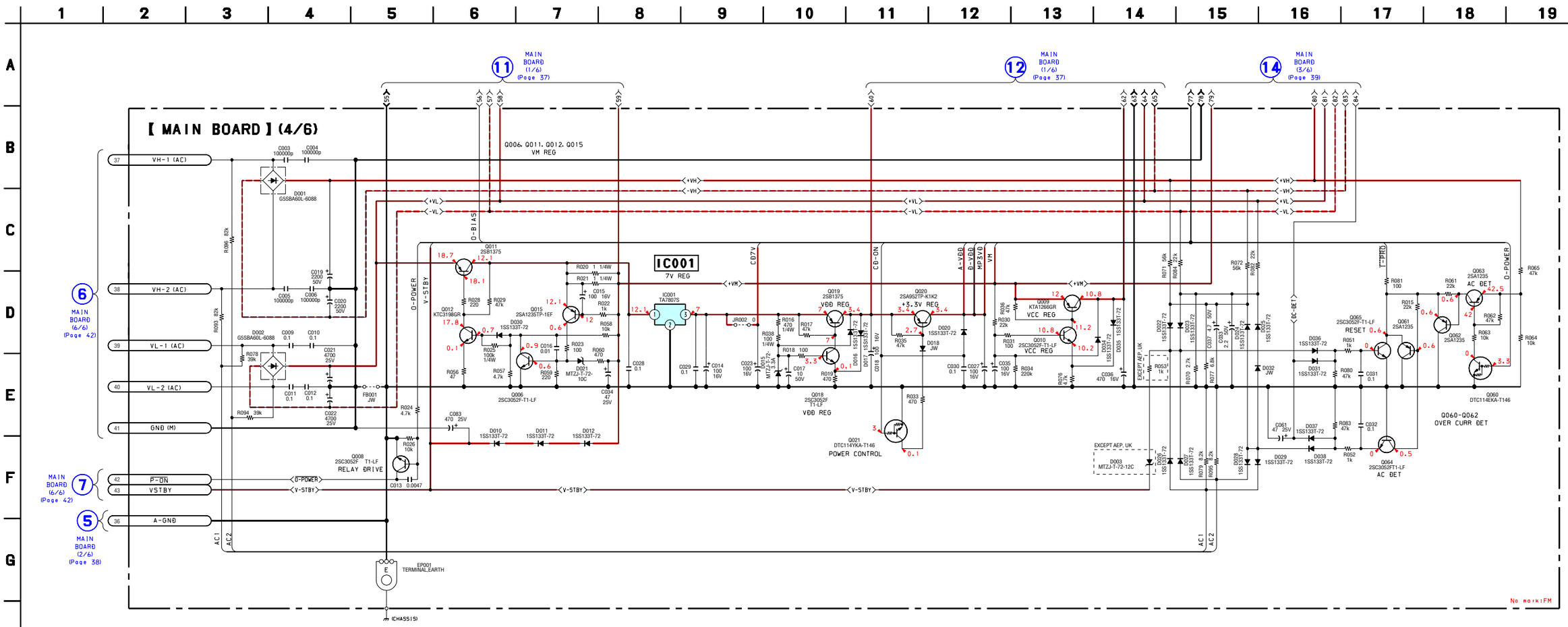
8-10. SCHEMATIC DIAGRAM — MAIN SECTION 2 —



8-11. SCHEMATIC DIAGRAM — MAIN SECTION 3 —

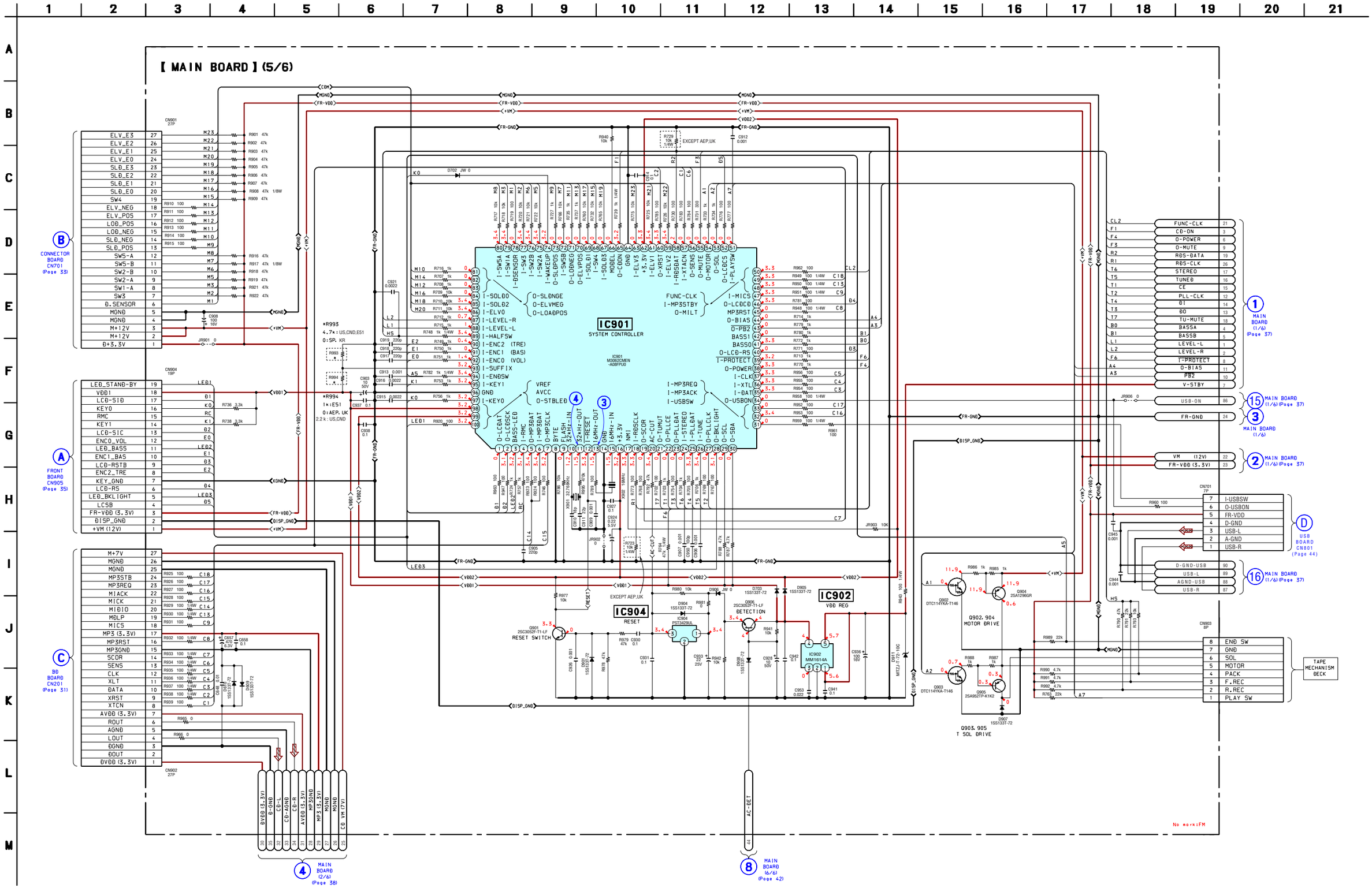


8-12. SCHEMATIC DIAGRAM — MAIN SECTION 4 —

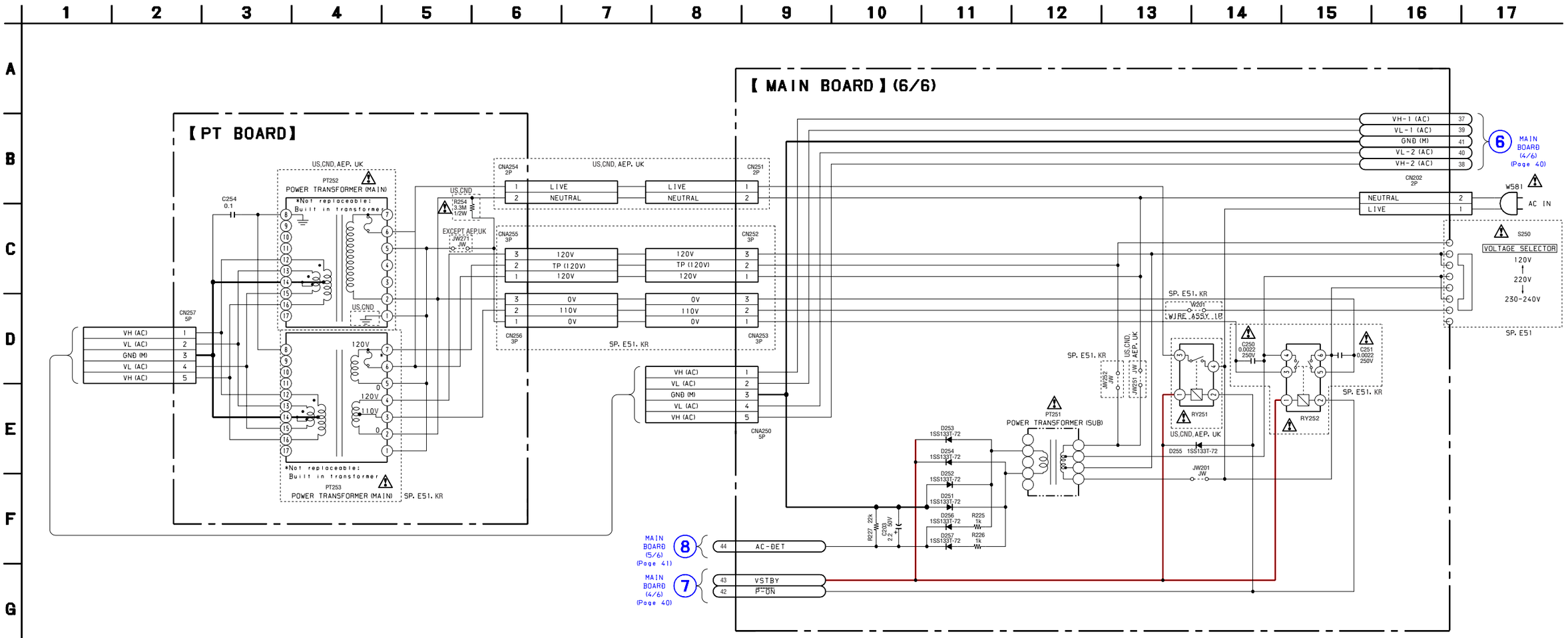


8-13. SCHEMATIC DIAGRAM — MAIN SECTION 5 —

• See page 50 for IC Pin Function Description. • See page 27 for Waveforms.

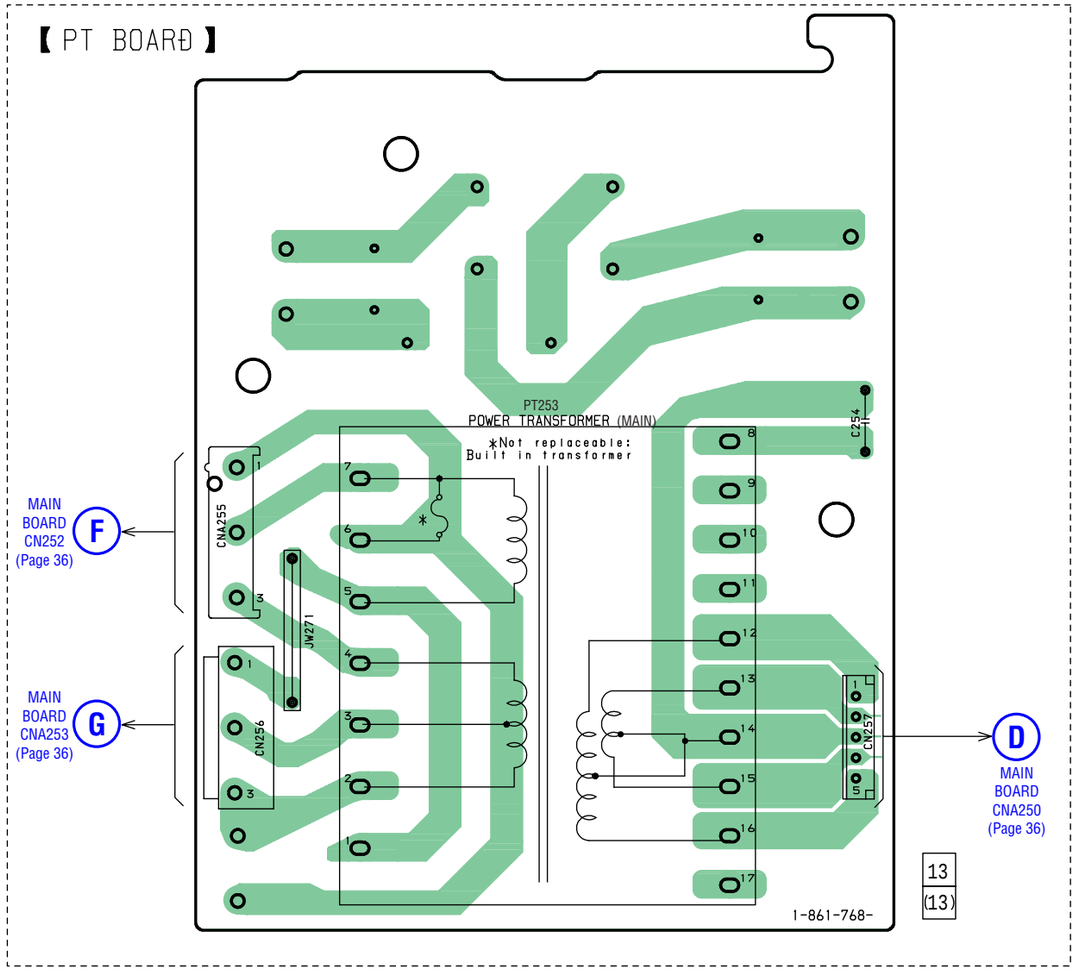


8-14. SCHEMATIC DIAGRAM — MAIN SECTION 6/POWER SECTION —

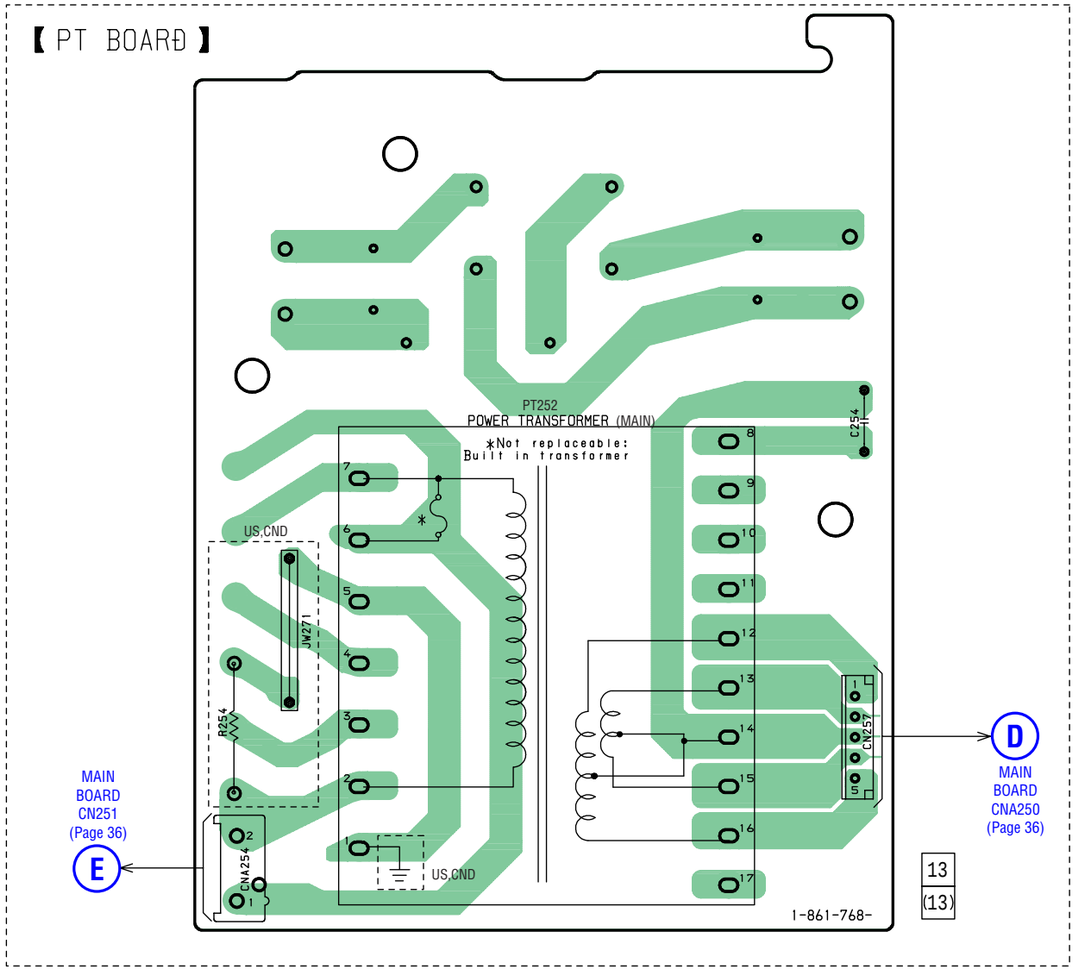


8-15. PRINTED WIRING BOARDS — POWER SECTION — • See page 27 for Circuit Boards Location. • : Uses unleaded solder.

SP, E51, KR



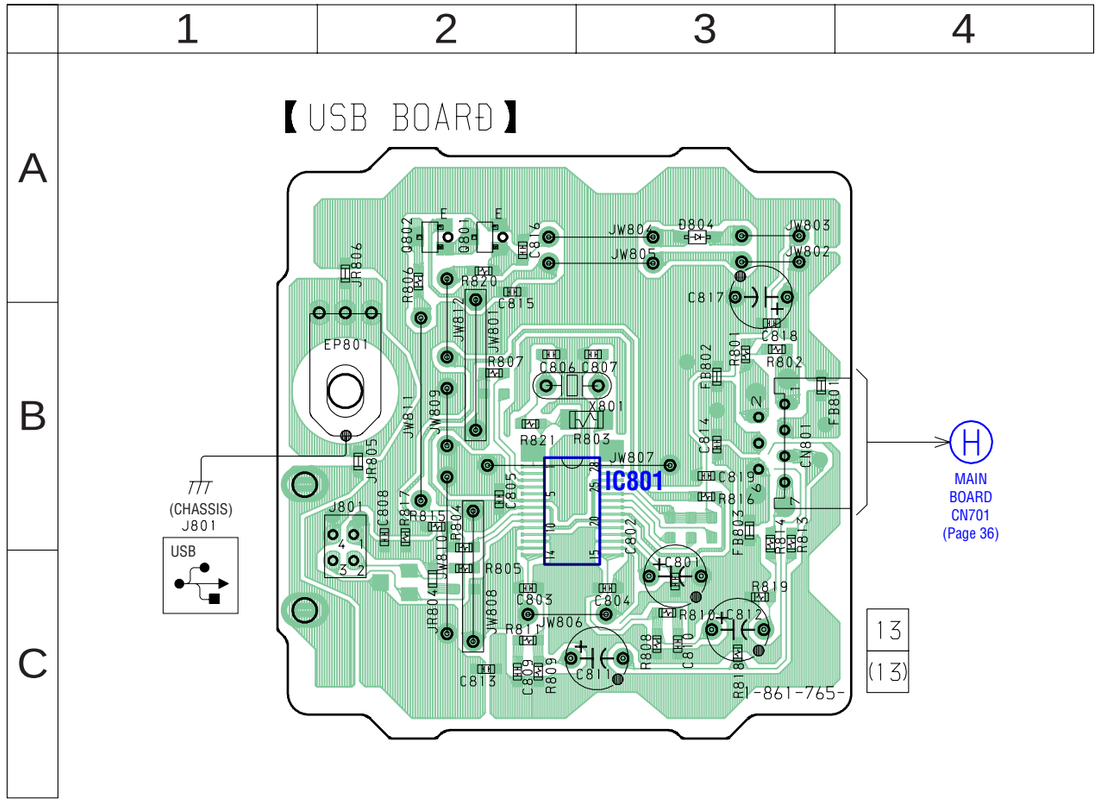
US,CND,AEP, UK



8-16. PRINTED WIRING BOARDS — USB SECTION —

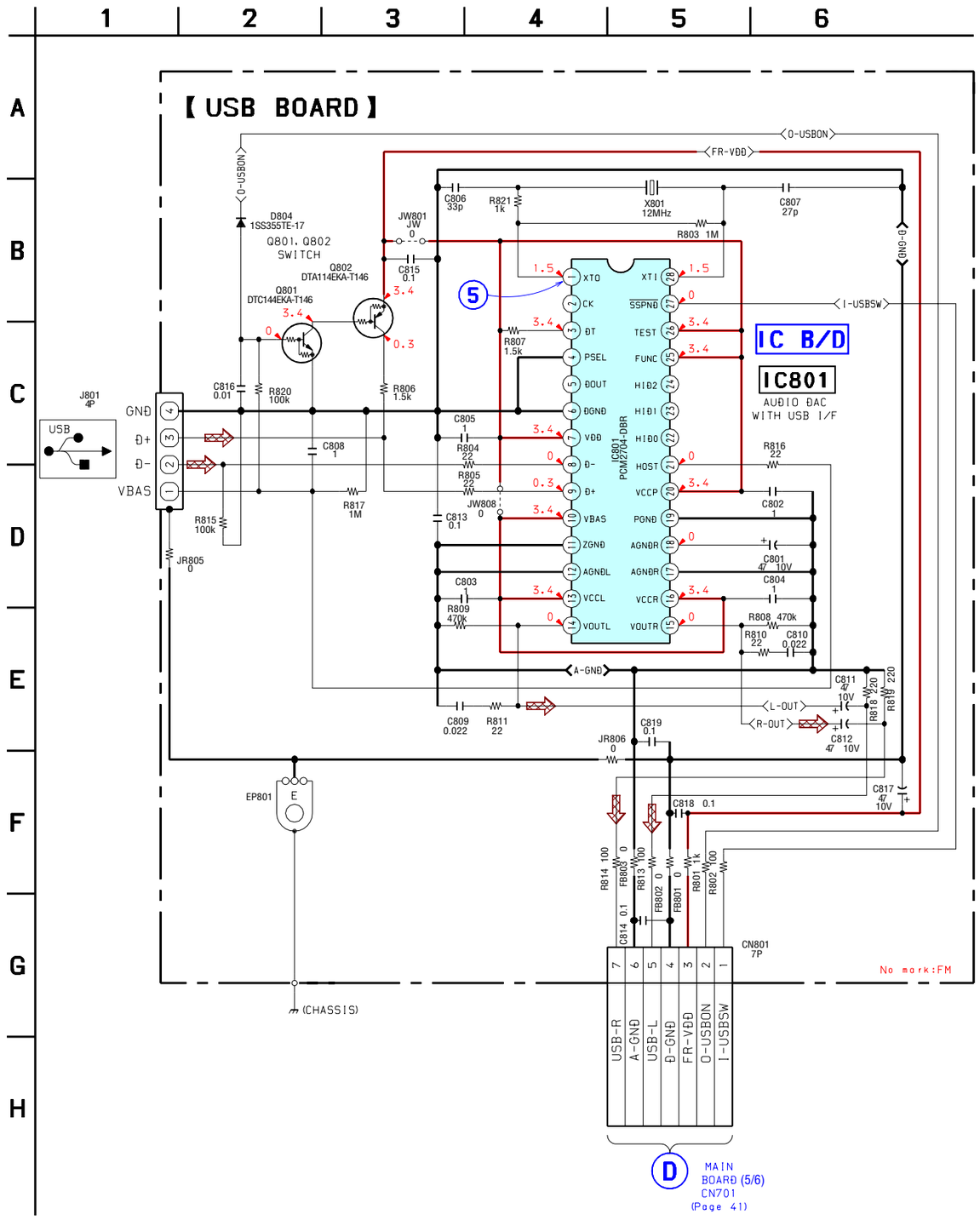
• See page 27 for Circuit Boards Location.

• : Uses unleaded solder.



8-17. SCHEMATIC DIAGRAM — USB SECTION —

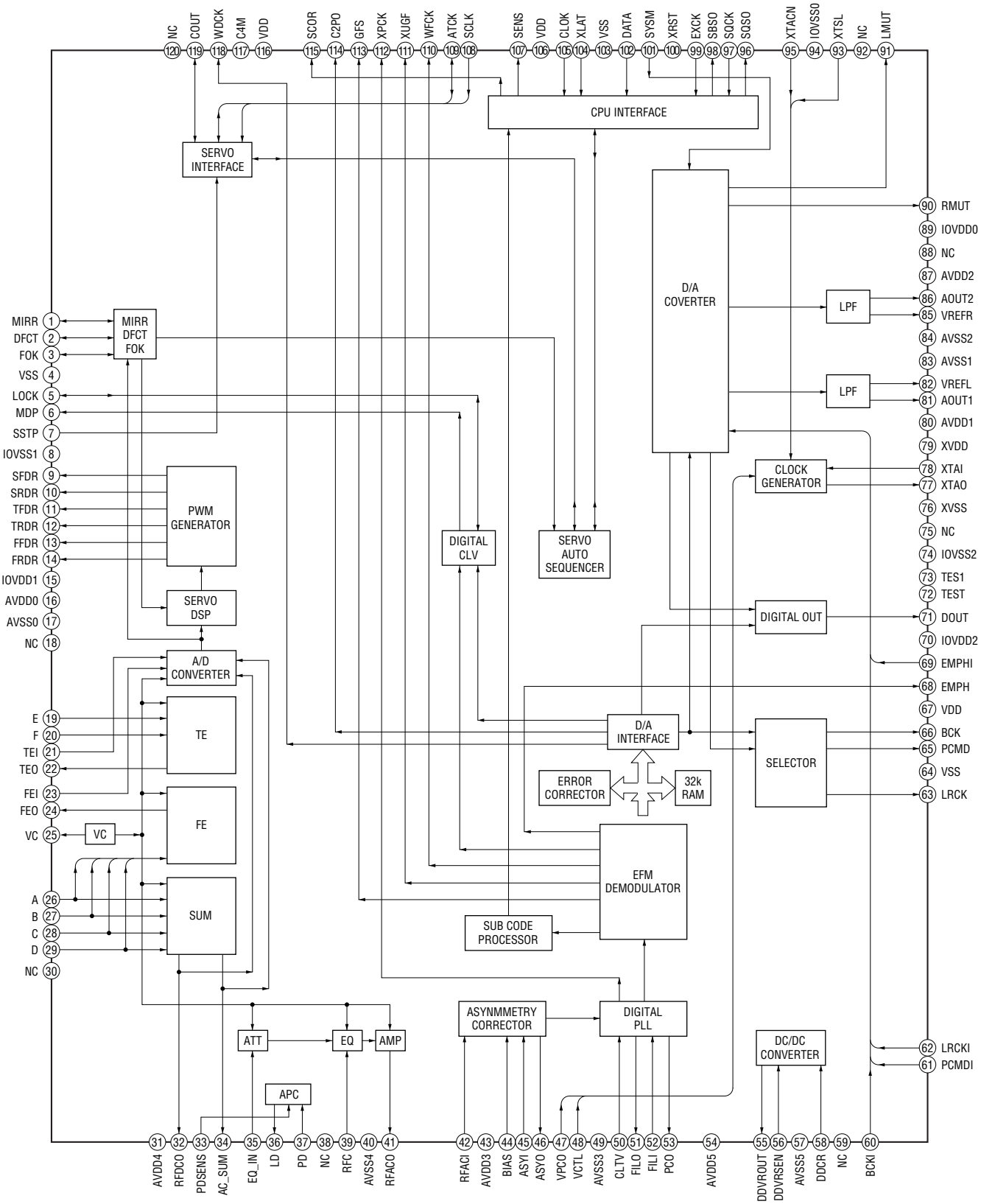
• See page 49 for IC Block Diagrams.
• See page 27 for Waveforms.



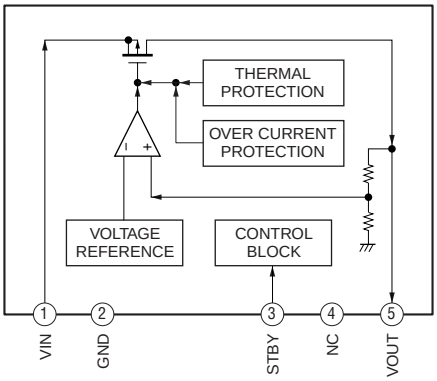
• IC Block Diagrams

— BD Board —

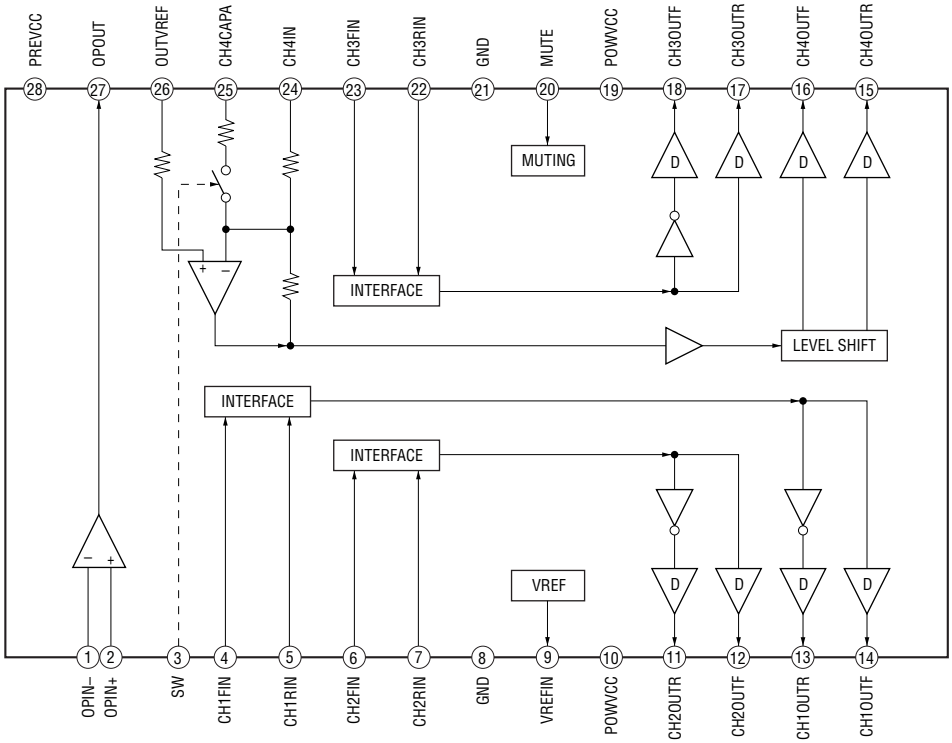
IC101 CXD3059AR



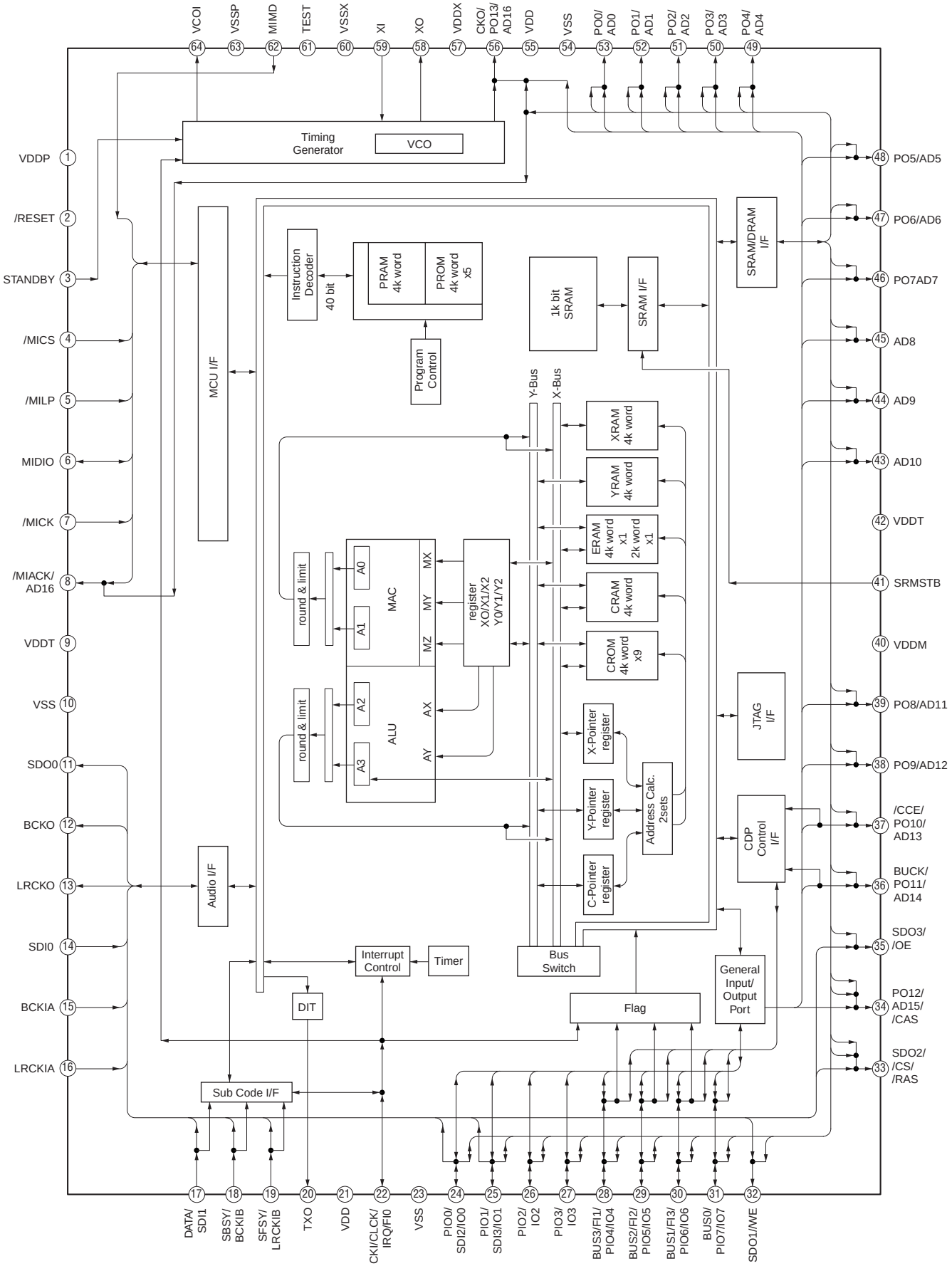
IC303 BH15FB1WG



IC251 BA5947FM

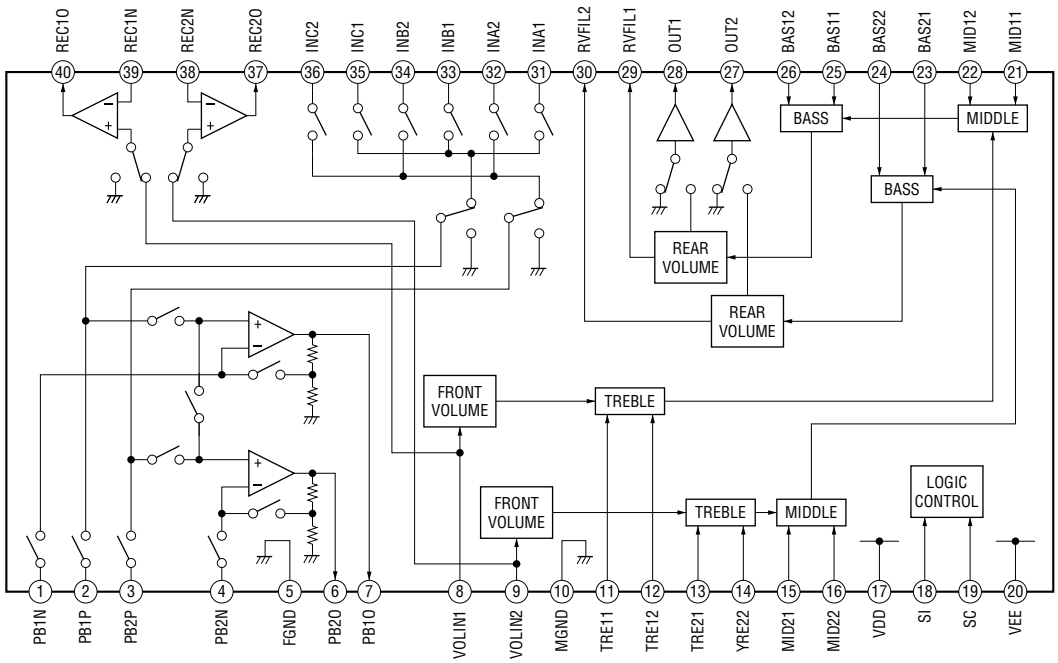


IC301 TC94A34FG-002



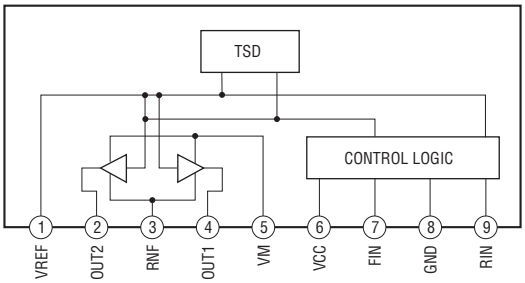
— MAIN Board —

IC601 BD3882FV



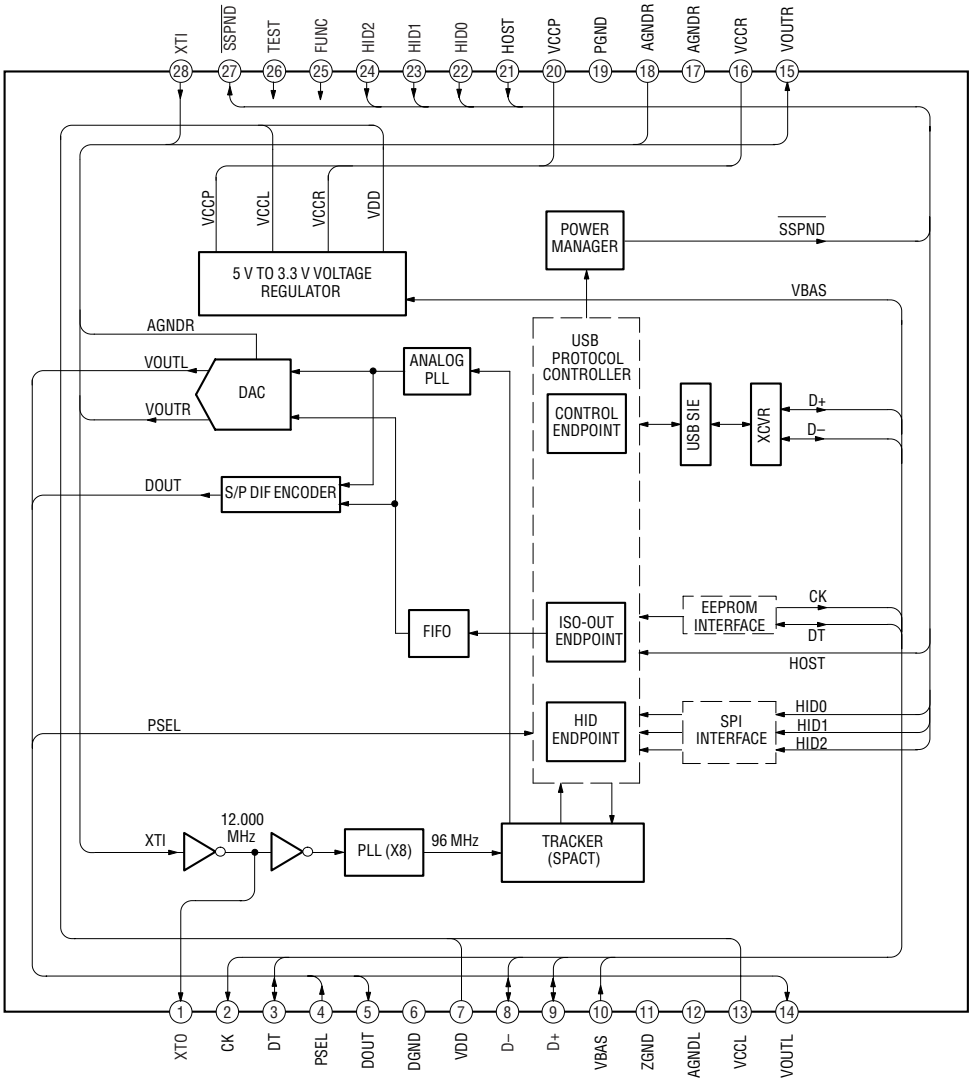
— CONNECTOR Board —

IC701, 711, 721 BA6956AN



— USB Board —

IC801 PCM2704 – DBR



• IC Pin Function Description

• IC901 M3062CMEN-A08FPU0 (SYSTEM CONTROLLER) (MAIN BOARD)

Pin No.	Pin Name	I/O	Description
1	O-LCDAT	O	Not used (open)
2	O-LCDSCK	O	Data output to the fluorescent indicator tube
3	O-BASS LED	O	LED (i-Bass/DEMO) control signal output
4	I-RMC	I	Remote control signal input from the remote sensor
5	O-MP3DAT	I/O	Data input/output from/to the MP3 IC
6	I-MP3DAT	I	Data input from the CD unit
7	O-MP3CLK	O	Clock output to the CD unit
8	BYTE	I	Destination setting input terminal
9	FLASH	—	Not used
10	32KHz-IN	I	Oscillaion circuit signal input for the real time clock
11	32KHz-OUT	O	Oscillaion circuit signal output for the real time clock
12	$\overline{\text{RESET}}$	I	Reset signal input
13	16MHz-OUT	O	Oscillaion circuit signal output for the system main clock
14	VSS1	—	Ground terminal
15	16MHz-IN	I	Oscillaion circuit signal input for the system main clock
16	VDD1	—	Power supply terminal (+3.3 V)
17	MNI	—	Not used
18	RDSCLK	I	Clock signal input from the tuner
19	I-RDS_CLK	I	RDS signal input from the tuner
20	AC-CUT	I	Power down detection signal input
21	O-TUMUT	O	Muting control signal output to the tuner
22	O-PLLCE	O	Latch signal output to the tuner
23	O-PLLDAT	O	Data output to the tuner
24	I-STEREO	I	Stereo detection signal input from the tuner
25	I-PLLDAT	I	Data input from the tuner
26	I-TUNED	I	Tuner tuned status signal input from the tuner
27	O-PLLCLK	O	Clock output to the tuner
28	O-BKLIGHT	O	LED (BACK LIGHT) control signal output
29	O-SCL	—	Not used
30	O-SDA	—	Not used
31	I-USBSW	—	Not used
32	I-MIACK	I	Acknowledge signal input from the MP3 IC
33	I-MP3REQ	I	Request signal input from the MP3 IC
34	O-USBON	I	Not used
35	O-DATA	O	Data output to the CD unit
36	O-XLT	O	Control data latch signal output to the CD unit
37	O-CLOK	O	Clock output to the CD unit
38	O-POWER	O	Main power control signal output
39	$\overline{\text{I-PROTECT}}$	I	Voltage detection signal input
40	O-LCDRS	O	Clock signal output to the fluorescent indicator tube
41	O-BASS_0	O	Level control signal output for i-Bass
42	O-BASS_1	O	Level control signal output for i-Bass
43	$\overline{\text{O-PB2}}$	O	Playback selection signal output for the tape deck
44	O-BIAS	O	Bias control signal output to the tape deck
45	O-MP3RST	O	Reset signal output to the MP3 IC
46	O-LCDCD	O	Latch signal output to the fluorescent indicator tube
47	I-MICK	O	Clock output to the MP3 IC
48	O-MILP	O	Latch pulse signal output to the MP3 IC
49	O-MP3STB	O	Strobe signal output to the MP3 IC
50	O-FUNC_CLK	O	Clock output to the function IC (IC601)

Pin No.	Pin Name	I/O	Description
51	I-PLAY SW	I	PLAY switch signal input from the tape deck
52	O-LCDCS	O	Chip select signal output to the fluorescent indicator tube
53	O-SOL	O	Solenoid control signal output to the tape deck
54	O-MOTOR	O	Motor control signal output to the tape deck
55	O-MUTE	O	Muting control signal output to the power amplifier
56	I-SENS	I	SENS signal input from the CD unit
57	I-XTACN	I	Clock input from the CD unit
58	I-RDSDAT	I	RDS data input from the tuner
59	I-ELV_E2	I	ELV_E2 switch signal input from the CD mechanism
60	O-XRST	O	Reset signal output to the CD unit
61	I-ELV_E1	I	ELV_E1 switch signal input from the CD mechanism
62	VDD2	—	Power supply terminal (+3.3 V)
63	I-ELV_E3	I	ELV_E3 switch signal input from the CD mechanism
64	VSS2	—	Ground terminal
65	O-CD_ON	O	CD power supply control signal output
66	MODEL	—	Power supply terminal
67	I-SLD_E3	I	SLD_E3 switch signal input from the CD mechanism
68	I-SW4	I	SW4 switch signal input from the CD mechanism
69	I-SLD_E1	I	SLD_E1 switch signal input from the CD mechanism
70	O-ELV_POS	O	Elevator motor control signal output
71	O-LOD_NEG	O	Loading motor control signal output
72	I-SW5-B	I	SW5-B switch signal input from the CD mechanism
73	O-SLD_POS	O	Sled motor control signal output
74	I-WAKEUP	I	SENS signal from the Function Key
75	I-SW2-A	I	SW2-A switch signal input from the CD mechanism
76	I-SW2-B	I	SW2-B switch signal input from the CD mechanism
77	I-SW3	I	SW3 switch signal input from the CD mechanism
78	I-D.SENSOR	I	Disc sensor signal input
79	I-SW1-A	I	SW1-A switch signal input from the CD mechanism
80	I-SW5-A	I	SW5-A switch signal input from the CD mechanism
81	O-SLD_NEG	O	Sled motor control signal output
82	O-ELV_NEG	O	Elevator motor control signal output
83	O-LOD_POS	O	Loading motor control signal output
84	I-SLD_E0	I	SLD_E0 switch signal input from the CD mechanism
85	I-SLD_E2	I	SLD_E2 switch signal input from the CD mechanism
86	I-ELV_E0	I	ELV_E0 switch signal input from the CD mechanism
87	I-LEVEL-R	I	Signal output from the Function IC (Rch)
88	I-LEVEL-L	I	Signal output from the Function IC (Lch)
89	I-R.REC	I	Record protect detect switch signal input (rear)
90	I-ENC2	I	Treble signal input from the rotary encoder
91	I-ENC1	I	Bass signal input from the rotary encoder
92	I-ENC0	I	Volume signal input from the rotary encoder
93	I-SUFFIX	—	Ground terminal
94	I-END SW	I	END switch signal input from the tape deck
95	I-KEY1	I	Key input 1
96	VSS3	—	Ground terminal
97	I-KEY0	I	Key input 0
98	VREF	—	Reference voltage
99	AVCC	—	Power supply terminal
100	O-STLED	O	Standby LED control signal output (“L” : active)

SECTION 9
EXPLODED VIEWS

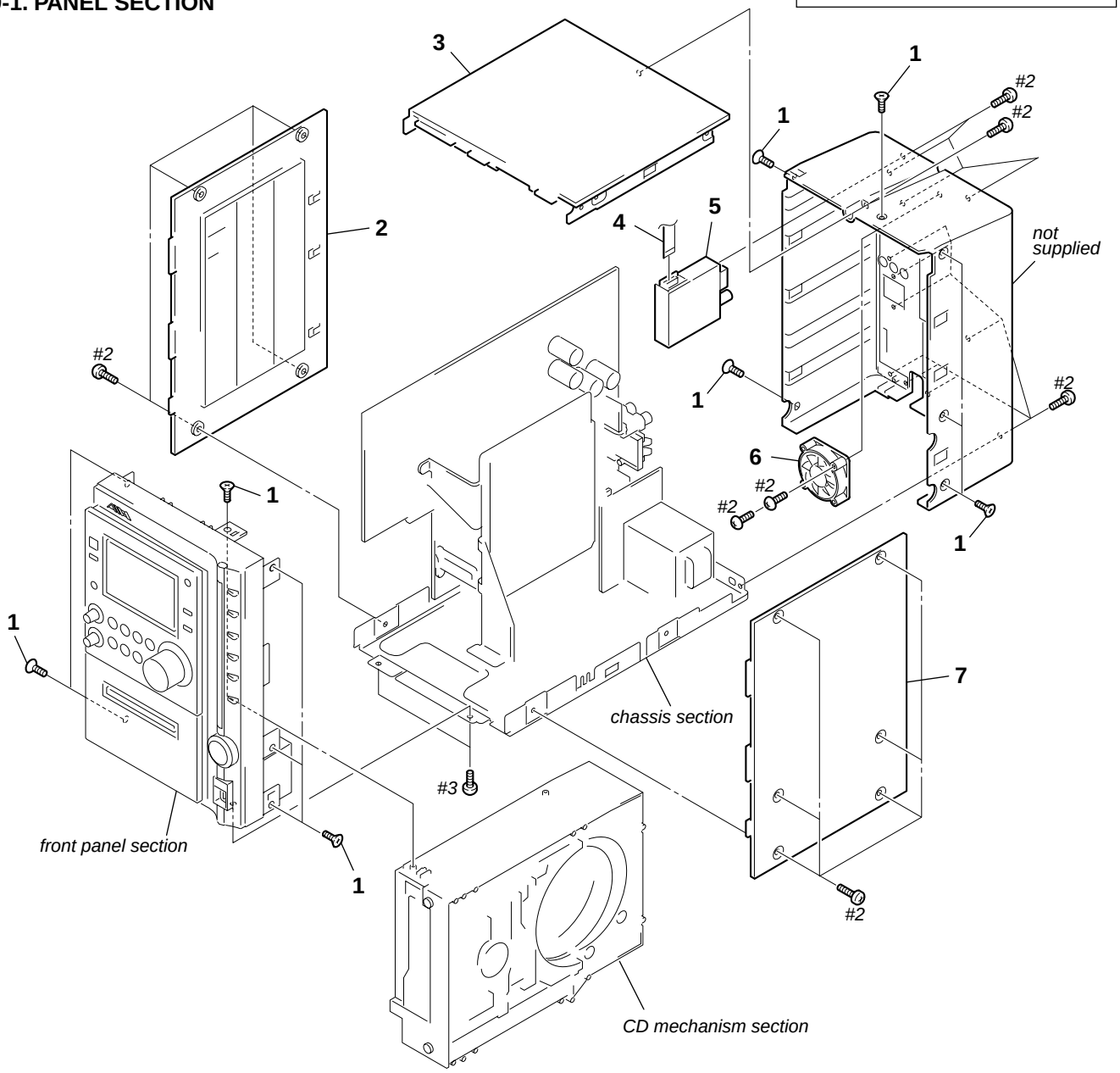
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  CND : Canadian model
  E51 : Chilean and Peruvian model
  KR : Korean model
  SP : Singapore model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

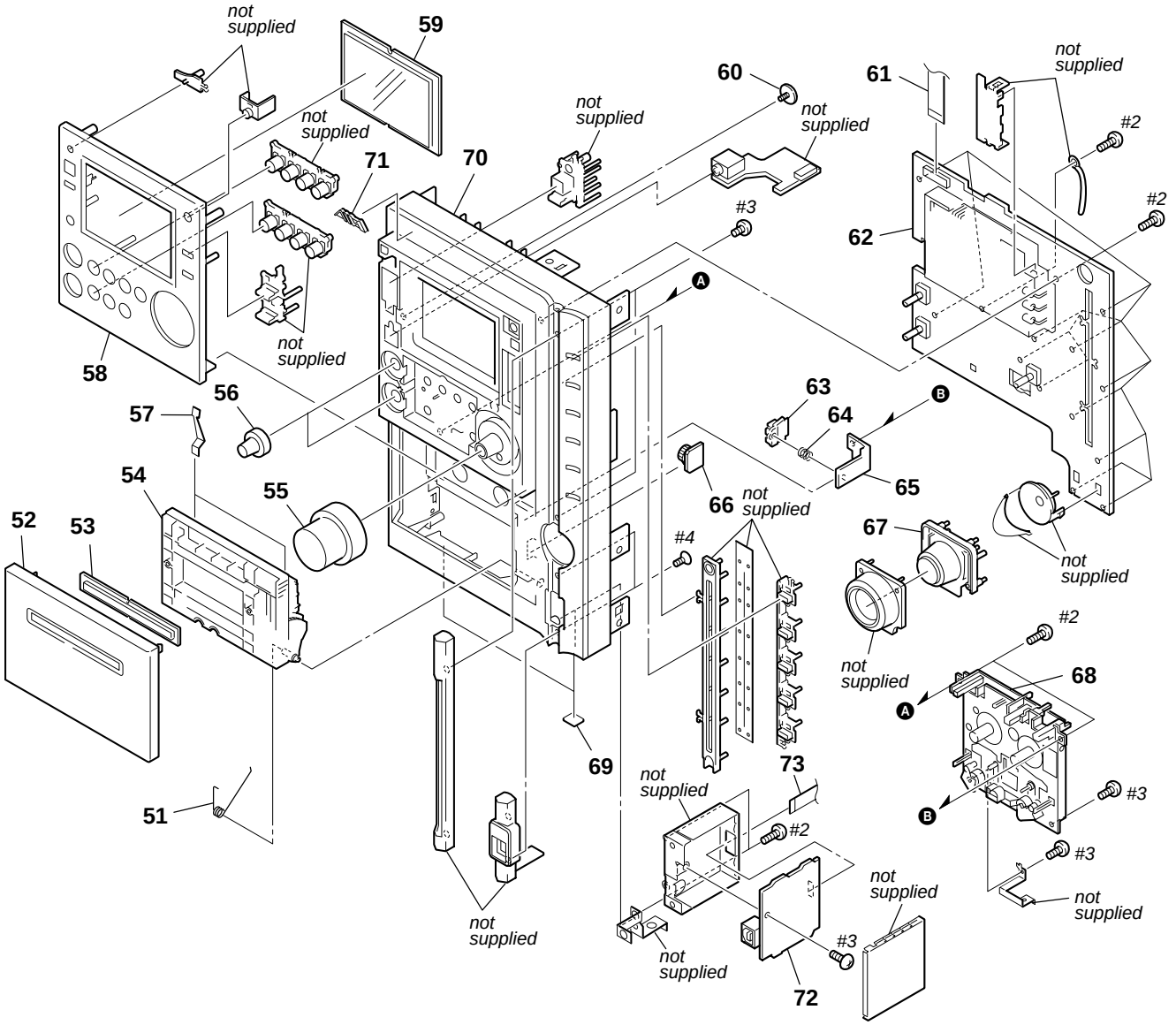
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

9-1. PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	7-685-245-14	SCREW+KTP 3X6 TYPE2 NON-SLIT	
2	4-245-912-33	PANEL (L), SIDE (EXCEPT US, CND)	
2	4-245-912-43	PANEL (L), SIDE (US, CND)	
3	4-245-911-33	PANEL, TOP (EXCEPT US, CND)	
3	4-245-911-43	PANEL, TOP (US, CND)	
4	1-823-669-11	WIRE (FLAT TYPE) (11 CORE) (EXCEPT AEP, UK)	
4	1-828-895-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)	
5	1-693-625-11	TUNER (FM/AM) (US, CND)	
5	1-693-626-11	TUNER (FM/AM) (AEP, UK)	
5	1-693-628-21	TUNER (FM/AM) (E51, SP)	
5	1-693-629-11	TUNER (FM/AM) (KR)	
6	1-763-697-21	DC FAN	
7	4-245-913-33	PANEL (R), SIDE (EXCEPT US, CND)	
7	4-245-913-43	PANEL (R), SIDE (US, CND)	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	

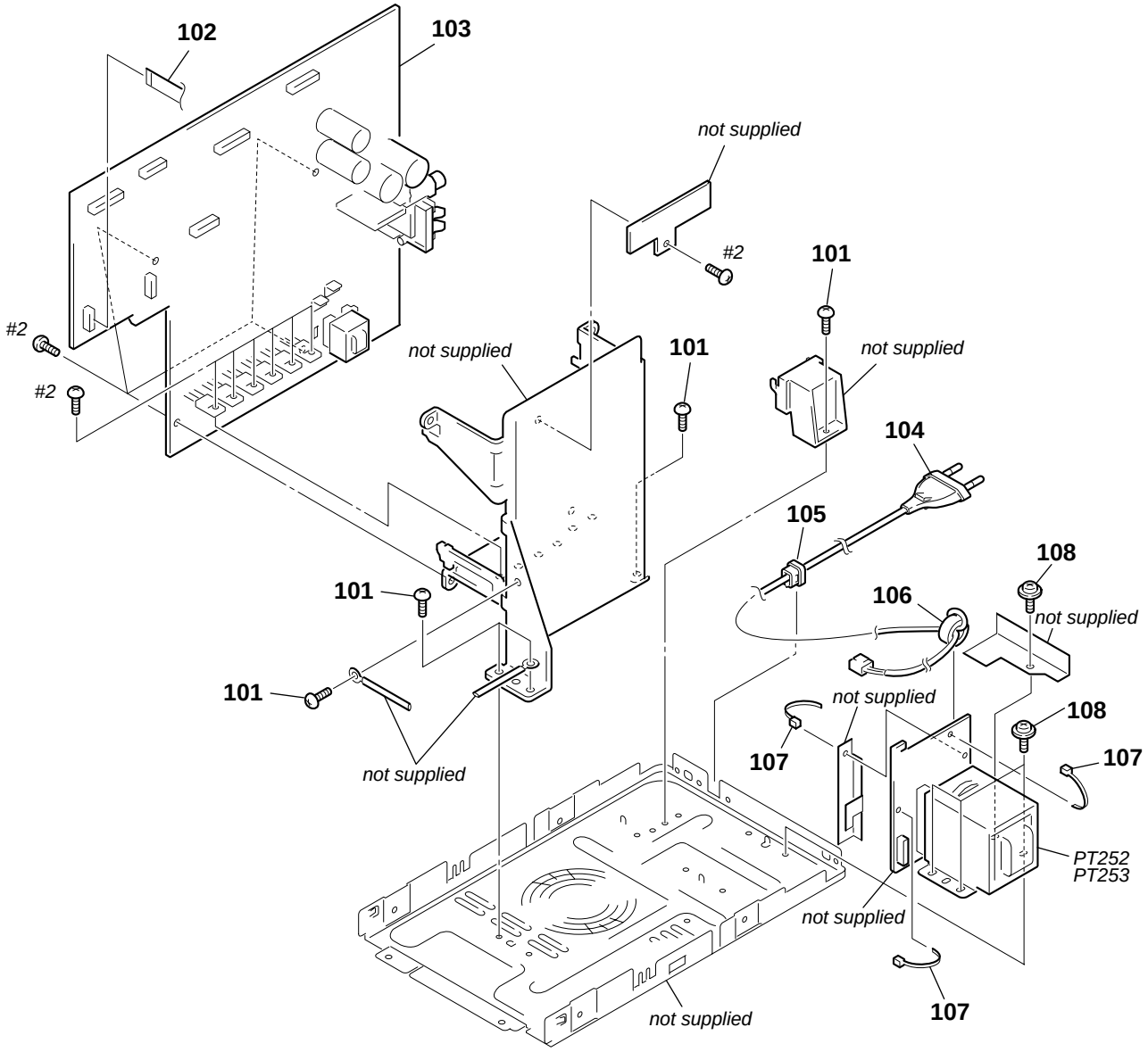
9-2. FRONT SECTION



Ref. No.	Part No.	Description	Remark
51	2-102-880-01	SPRING (CASS), TORSION A	
52	4-253-197-01	PANEL, CASSETTE	
53	4-253-191-01	WINDOW, CASSETTE	
54	4-253-198-01	BOX, CASSETTE	
55	4-253-199-01	KNOB (VOL)	
56	4-245-223-11	KNOB, B/T	
57	4-246-745-01	CASSETTE, SPRING	
58	4-253-180-01	PANEL, FRONT (EXCEPT AEP, UK)	
58	4-253-180-11	PANEL, FRONT (AEP, UK)	
59	4-253-190-01	WINDOW, DISPLAY	
60	3-229-336-11	SCREW, +BVWH TAPPING	
61	1-828-360-11	WIRE (FLAT TYPE) (19 CORE)	
62	A-4751-916-A	FRONT BOARD, COMPLETE	
63	4-242-172-01	PLATE, LOCK	
64	4-242-173-01	SPR-C, LOCK	

Ref. No.	Part No.	Description	Remark
65	4-242-175-01	HLDR, LOCK 2	
66	4-242-171-01	DAMPER 150 N	
67	4-253-185-01	KEY, I-BASS	
68	1-796-351-71	MECHANISM, SIGNAL CASSETTE	(CMAL1Z250A)
69	4-242-091-01	CUSHION	
70	4-253-179-01	CABINET, FRONT (AEP, UK, KR)	
70	4-253-179-11	CABINET, FRONT (US, CND, E51, SP)	
71	4-245-158-01	EMBLEM	
72	A-4751-918-A	USB BOARD, COMPLETE	
73	1-828-948-11	WIRE (FLAT TYPE) (7 CORE)	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
#3	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
#4	7-685-245-14	SCREW +KTP 3X6 TYPE2 NON-SLIT	

9-3. CHASSIS SECTION

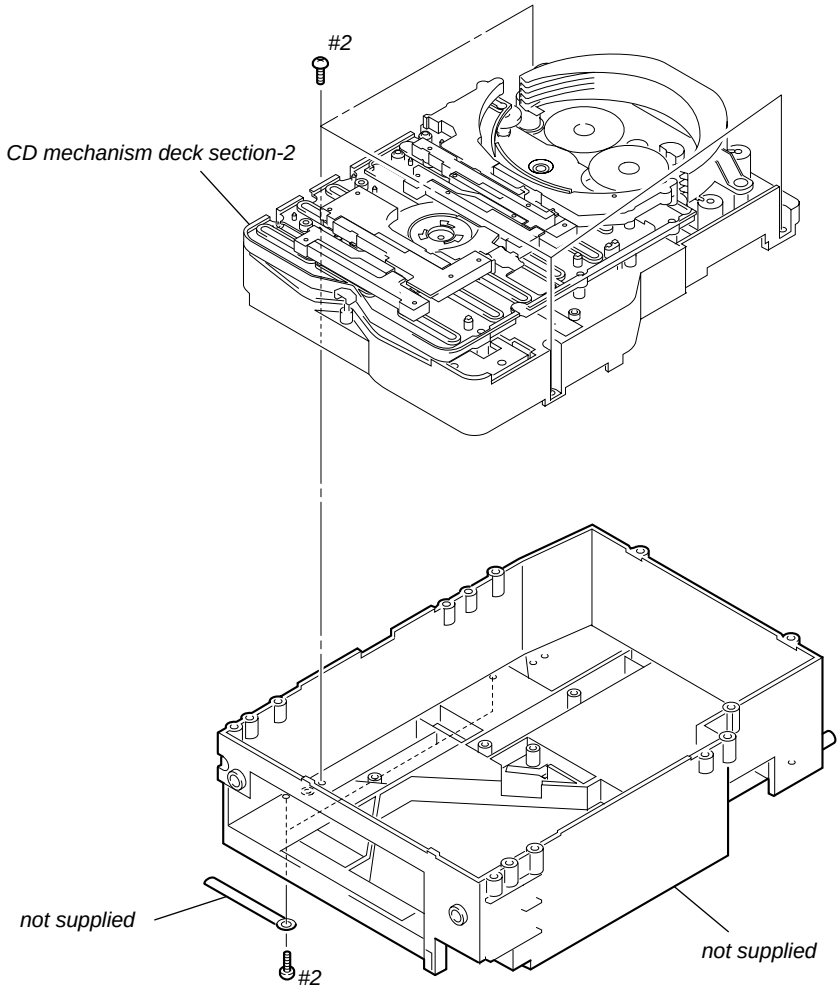


Ref. No.	Part No.	Description	Remark
101	3-077-331-01	+BV3 (3-CR)	
102	1-828-007-11	WIRE (FLAT TYPE) (8 CORE)	
103	A-1056-017-A	MAIN BOARD, COMPLETE (E51)	
103	A-1060-715-A	MAIN BOARD, COMPLETE (SP)	
103	A-1066-975-A	MAIN BOARD, COMPLETE (KR)	
103	A-4751-184-A	MAIN BOARD, COMPLETE (AEP, UK)	
103	A-4751-908-A	MAIN BOARD, COMPLETE (US, CND)	
⚠104	1-769-079-41	CORD, POWER (KR)	
⚠104	1-769-744-52	CORD, POWER (AEP, UK, E51, SP)	
⚠104	1-783-531-12	CORD, POWER (US, CND)	

Ref. No.	Part No.	Description	Remark
105	3-703-244-00	BUSHING (2104), CORD	
106	1-400-043-11	CORE, FERRITE (US, CND)	
106	1-469-636-11	CORE, FERRITE (ESD-R-25SD)	
107	4-059-585-01	TIE, CABLE	
108	4-900-386-01	SCREW	
⚠PT252	1-443-217-11	TRANSFORMER, POWER (AEP, UK)	
⚠PT252	1-443-219-11	TRANSFORMER, POWER (US,CND)	
⚠PT253	1-443-220-11	TRANSFORMER, POWER (E51,SP,KR)	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

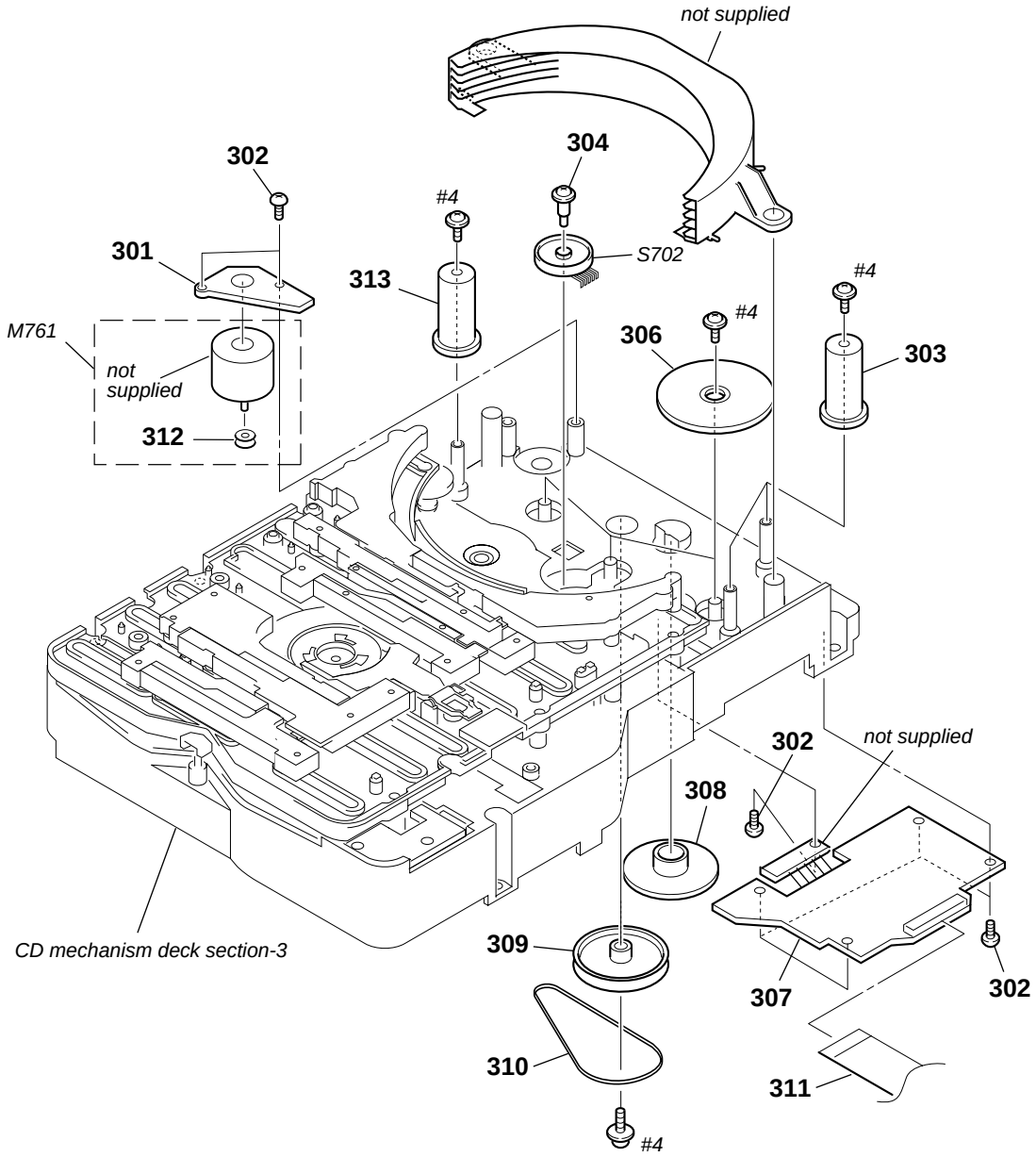
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-4. CD MECHANISM DECK SECTION 1 (CDM69CV-F4BD81B2)



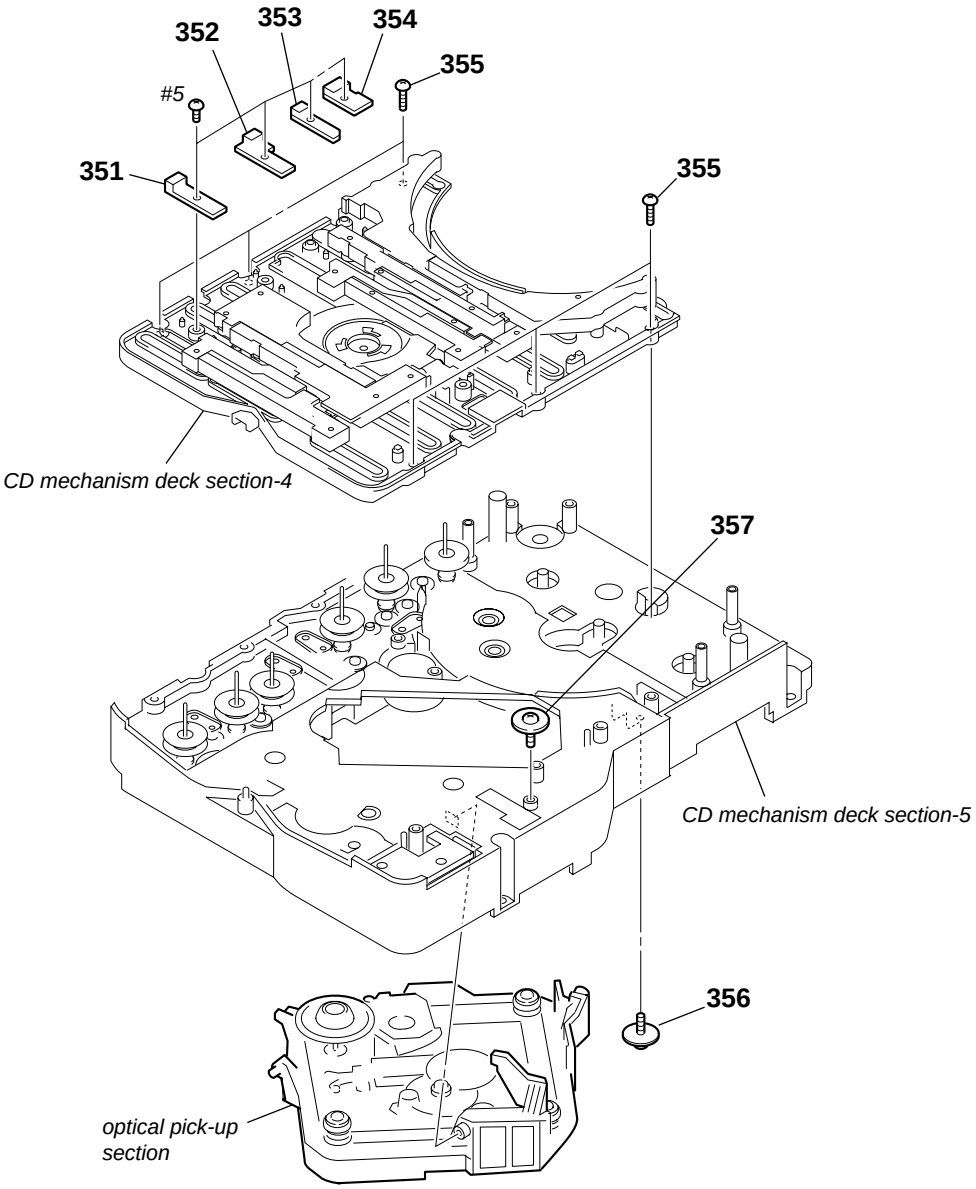
Ref. No.	Part No.	Description	Remark
#2	7-685-647-79	SCREW+BVTP 3X10 TYPE2 IT-3	

9-5. CD MECHANISM DECK SECTION 2 (CDM69CV-F4BD81B2)



Ref. No.	Part No.	Description	Remark
301	1-686-725-13	STOCKER MOTOR BOARD	
302	4-951-620-01	SCREW (2.6X8), +BVTP	
303	4-239-690-01	CAM (STOCKER U/D)	
304	4-239-618-02	SCREW (+PWH,2X6), STEP TAPPING	
306	4-239-687-01	GEAR (STOCKER COMMUNICATION)	
307	A-4731-113-A	CONNECTOR BOARD, COMPLETE	
308	4-239-689-01	GEAR (STOCKER DECELERATION)	
309	4-239-699-01	PULLEY	
310	4-221-237-01	BELT (MODE)	
311	1-828-404-11	WIRE (FLAT TYPE)(27 CORE)	
312	4-986-156-01	PULLEY, MOTOR	
313	4-244-764-01	CAM (STOCKER V)	
M761	A-4735-953-A	MOTOR ASSY (STOCKER)	
S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

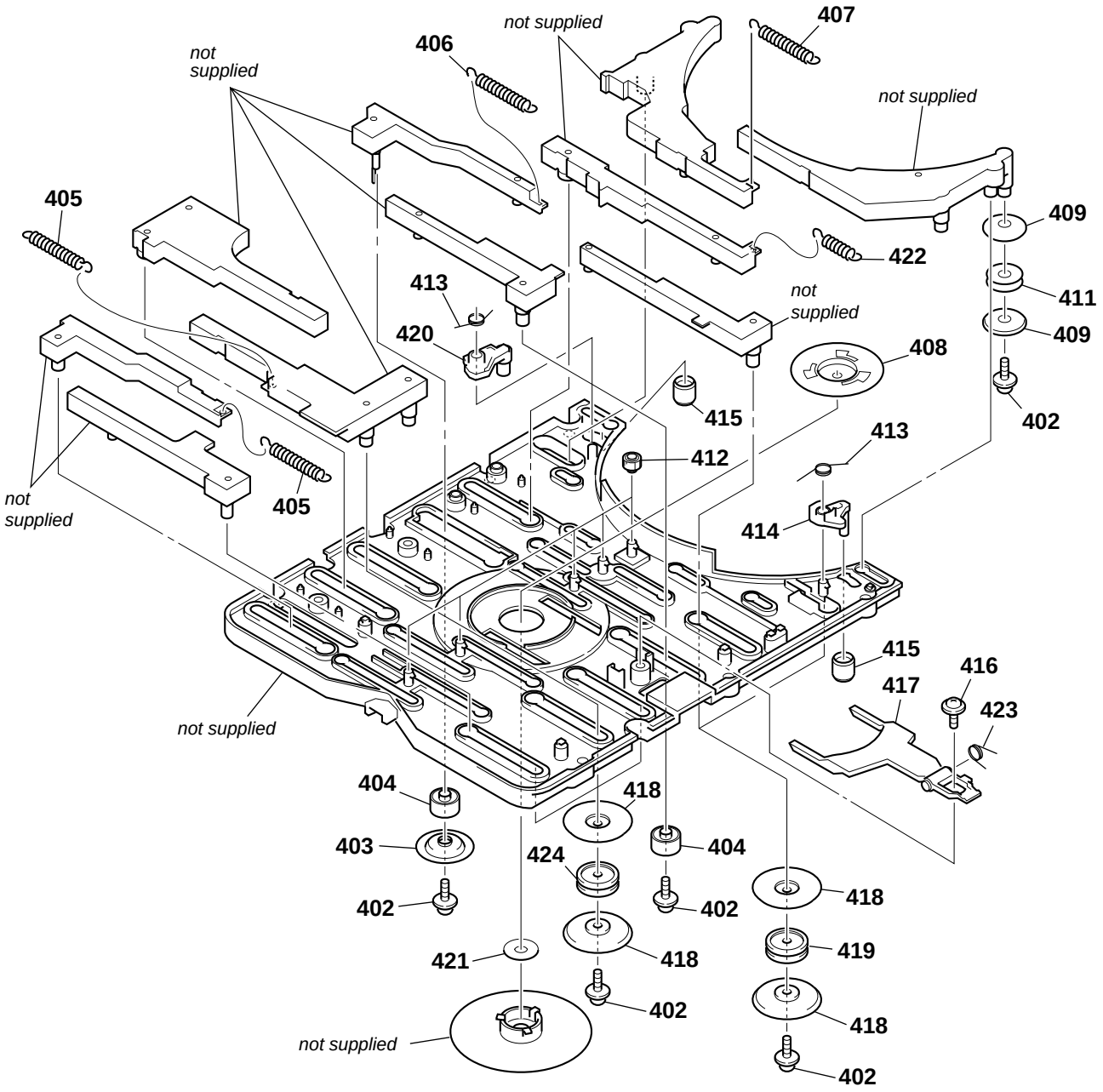
9-6. CD MECHANISM DECK SECTION 3 (CDM69CV-F4BD81B2)



Ref. No.	Part No.	Description	Remark
351	1-686-727-13	SW (1) BOARD	
352	1-686-728-13	SW (2) BOARD	
353	1-686-729-13	SW (3) BOARD	
354	1-686-730-13	SW (4) BOARD	
355	4-951-620-01	SCREW (2.6X8), +BVTP	

Ref. No.	Part No.	Description	Remark
356	4-985-672-01	SCREW (+PTPWHM 2.6), FROATING	
357	4-227-899-01	SCREW (DIA,12), FROATING	
#5	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	

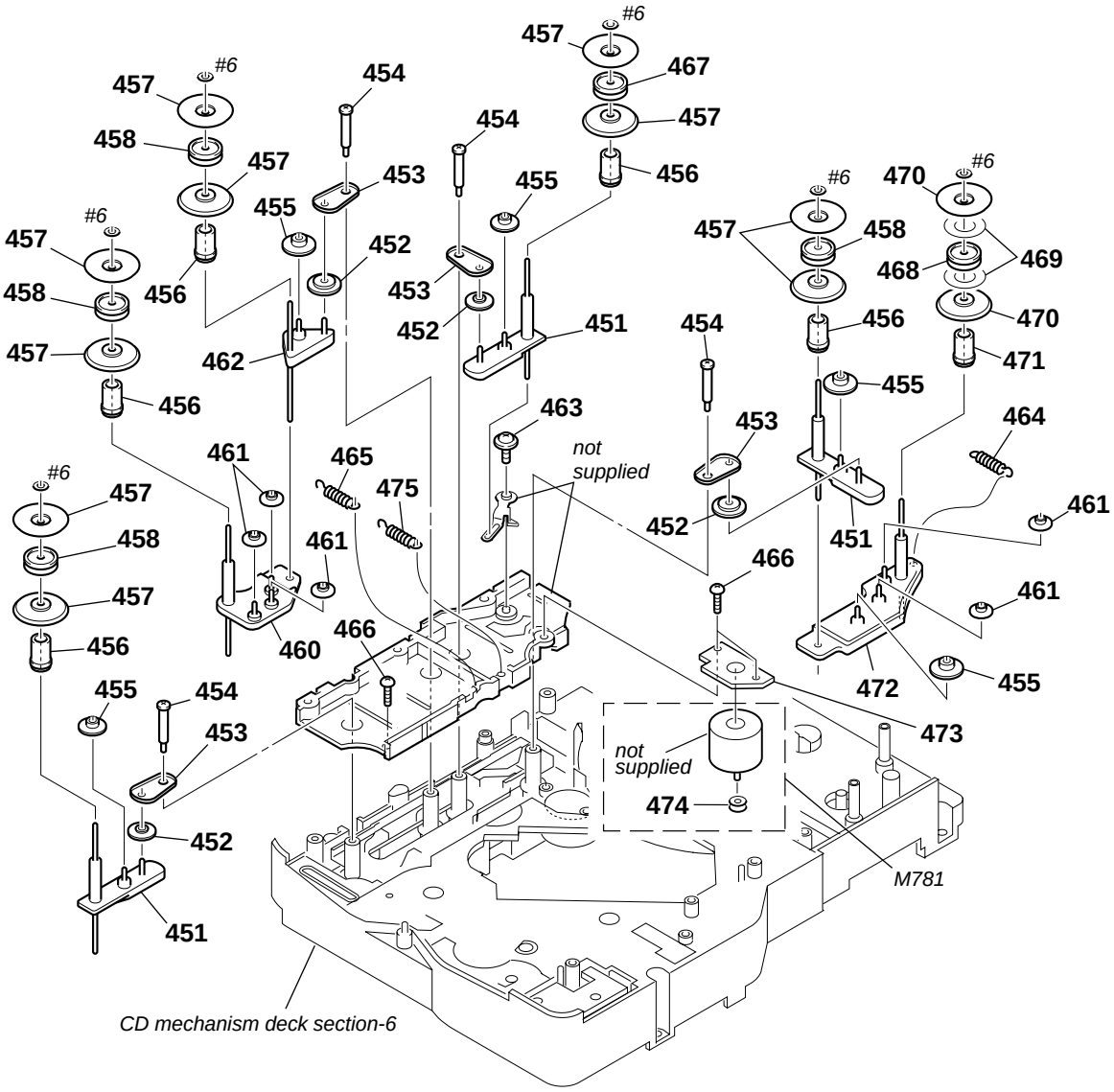
9-7. CD MECHANISM DECK SECTION 4 (CDM69CV-F4BD81B2)



Ref. No.	Part No.	Description	Remark
402	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)	
403	4-239-648-01	PARASOL (ROLLER)	
404	4-239-646-01	ROLLER (ROLLER)	
405	4-239-641-01	SPRING (1.2), TENSION	
406	4-239-642-01	SPRING (3), TENSION COIL	
407	4-239-679-01	SPRING (5), TENSION COIL	
408	4-243-714-01	PULLEY (B) (BU30), CHUCKING	
409	4-239-649-01	PARASOL (STOCKER)	
411	4-244-035-01	ROLLER (STOCKER), RUBBER	
412	4-239-640-01	PINION (SLIDER)	
413	4-243-291-01	SPRING, TORSION	

Ref. No.	Part No.	Description	Remark
414	4-240-039-01	LEVER (DISC STOPPER)	
415	4-239-702-01	ROLLER (DISC STOPPER)	
416	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
417	4-243-713-01	LEVER (LIFTER)	
418	4-239-647-01	PARASOL (MAIN)	
419	4-243-916-01	ROLLER (S), RUBBER	
420	4-241-599-01	LEVER (SUPPORT)	
421	4-228-414-01	BRACKET (YOKE)	
422	4-239-643-01	SPRING (4), TENSION COIL	
423	4-243-914-01	SPRING (LIFTER), TORSION	
424	4-244-032-01	ROLLER, RUBBER	

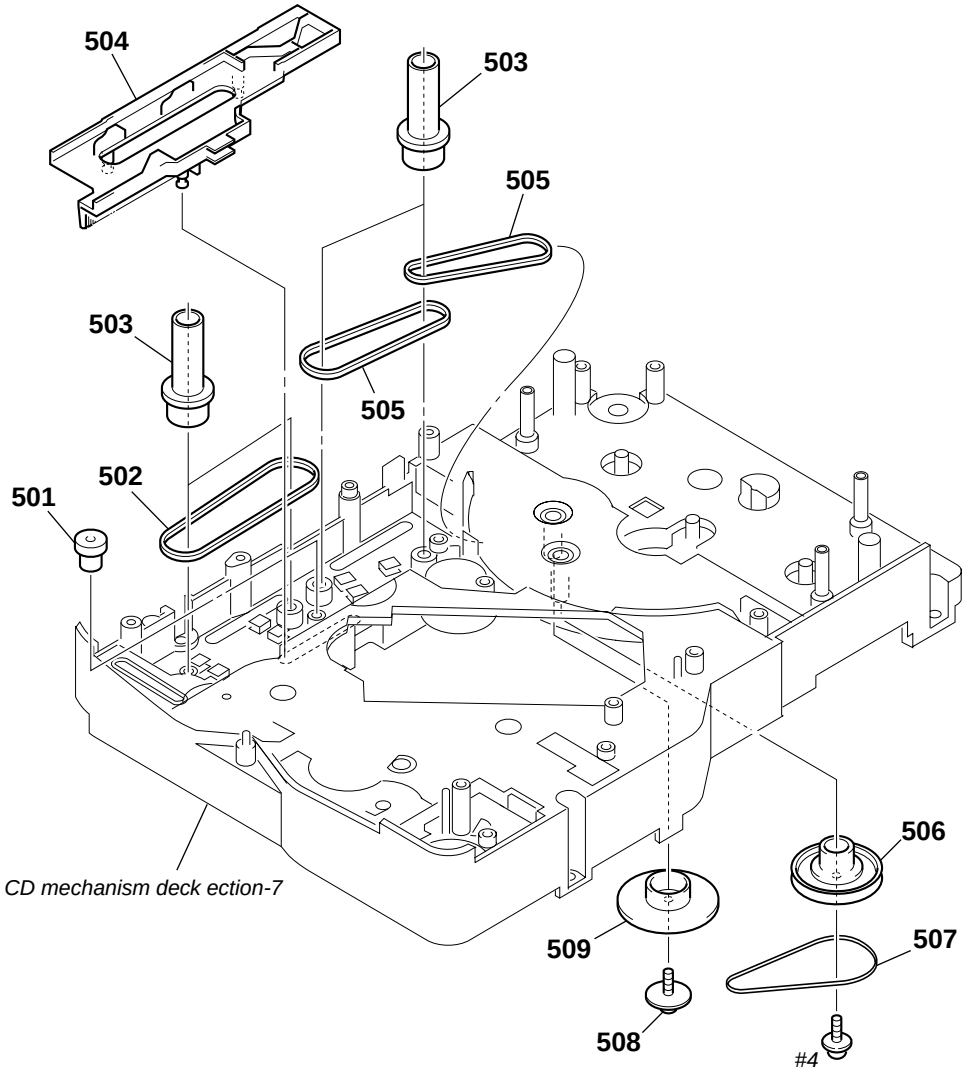
9-8. CD MECHANISM DECK SECTION 5 (CDM69CV-F4BD81B2)



Ref. No.	Part No.	Description	Remark
451	X-4954-626-1	LEVER (ROLLER) ASSY	
452	4-239-666-01	GEAR	
453	4-239-668-01	LEVER (CENTER)	
454	4-239-652-02	SCREW (ROLLER), STEP	
455	4-239-669-01	GEAR (ROLLER COMMUNICATION)	
456	4-239-667-01	GEAR (ROLLER CENTER)	
457	4-239-647-01	PARASOL (MAIN)	
458	4-244-032-01	ROLLER, RUBBER	
460	X-4954-622-1	BASE (SLIDER 2) ASSY	
461	4-239-670-01	GEAR (ROLLER 5 COMMUNICATION)	
462	X-4954-624-1	LEVER (SLIDER 4) ASSY	
463	4-992-069-01	SCREW (+PTPWH)(M2)(DIA. 7)	
464	4-240-981-01	SPRING (BASE SLIDER 5),TENSION	

Ref. No.	Part No.	Description	Remark
465	4-240-041-01	SPRING (SLIDER 2), TENSION	
466	4-951-620-01	SCREW (2.6X8), +BVTP	
467	4-243-916-01	ROLLER (S), RUBBER	
468	4-244-035-01	ROLLER (STOCKER), RUBBER	
469	4-241-209-01	SHEET, ADHESIVE	
470	4-239-649-01	PARASOL (STOCKER)	
471	4-239-671-01	GEAR (ROLLER 5 CENTER)	
472	X-4954-627-1	BASE (SLIDER 5) ASSY	
473	1-686-726-13	ROLLER MOTOR BOARD	
474	4-986-156-01	PULLEY, MOTOR	
475	4-244-162-01	SPRING (SLIDER 4),TENSION	
M781	A-4735-953-A	MOTOR ASSY (ROLLER)	
#6	7-623-921-01	RING, RETAINING, CAPSTAN	

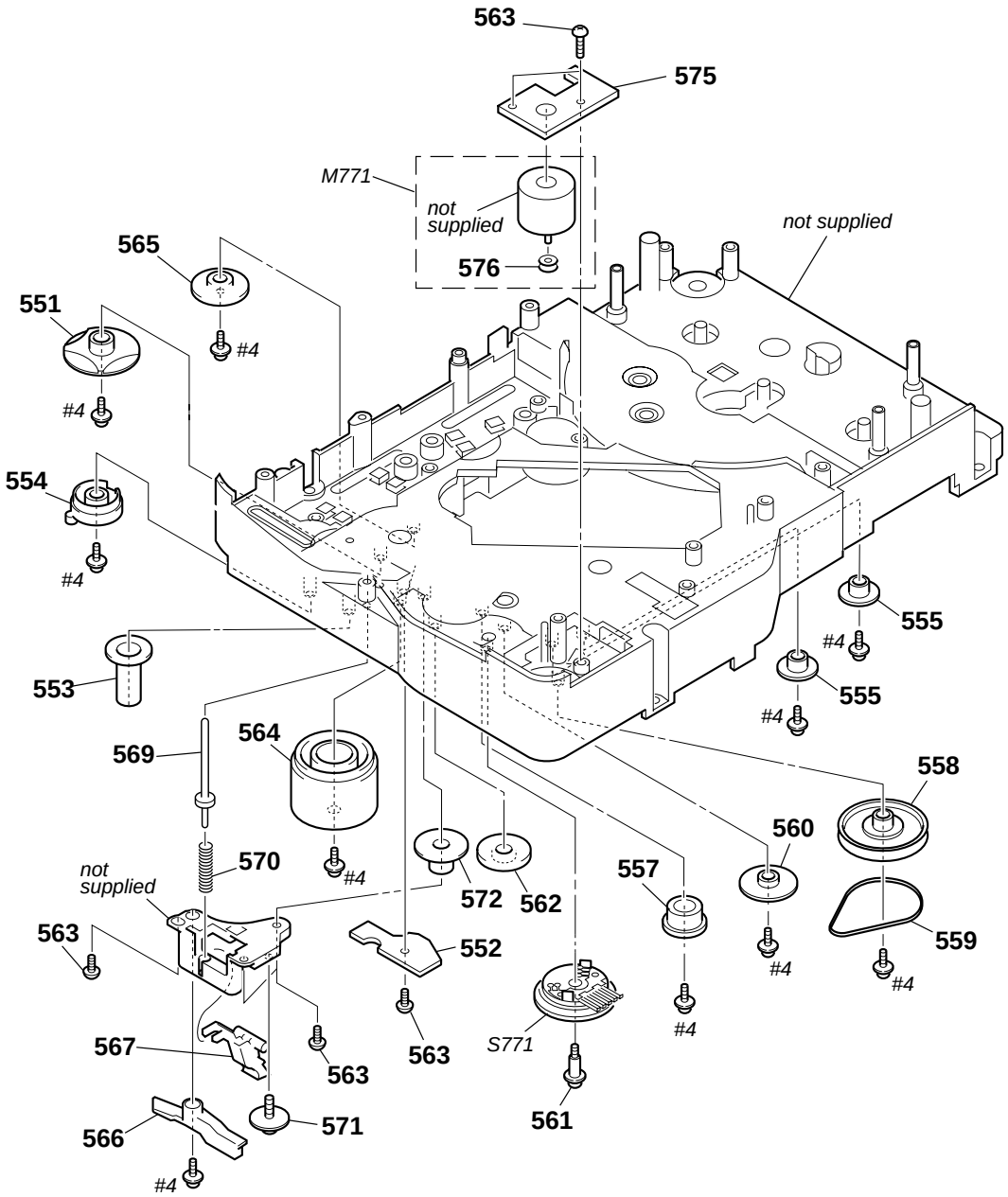
9-9. CD MECHANISM DECK SECTION 6 (CDM69CV-F4BD81B2)



Ref. No.	Part No.	Description	Remark
501	4-240-020-01	GEAR (TIMING)	
502	4-239-708-02	BELT (FRONT), TIMING	
503	4-239-697-01	GEAR (CENTER)	
504	X-4955-157-1	SLIDER (MODE CAM V) ASSY	
505	4-239-706-02	BELT (REAR), TIMING	

Ref. No.	Part No.	Description	Remark
506	4-239-699-01	PULLEY	
507	4-247-349-02	BELT (ROLLER V)	
508	4-227-899-01	SCREW (DIA. 12), FROATING	
509	4-239-686-01	GEAR (ROLLER DECELERATION)	
#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

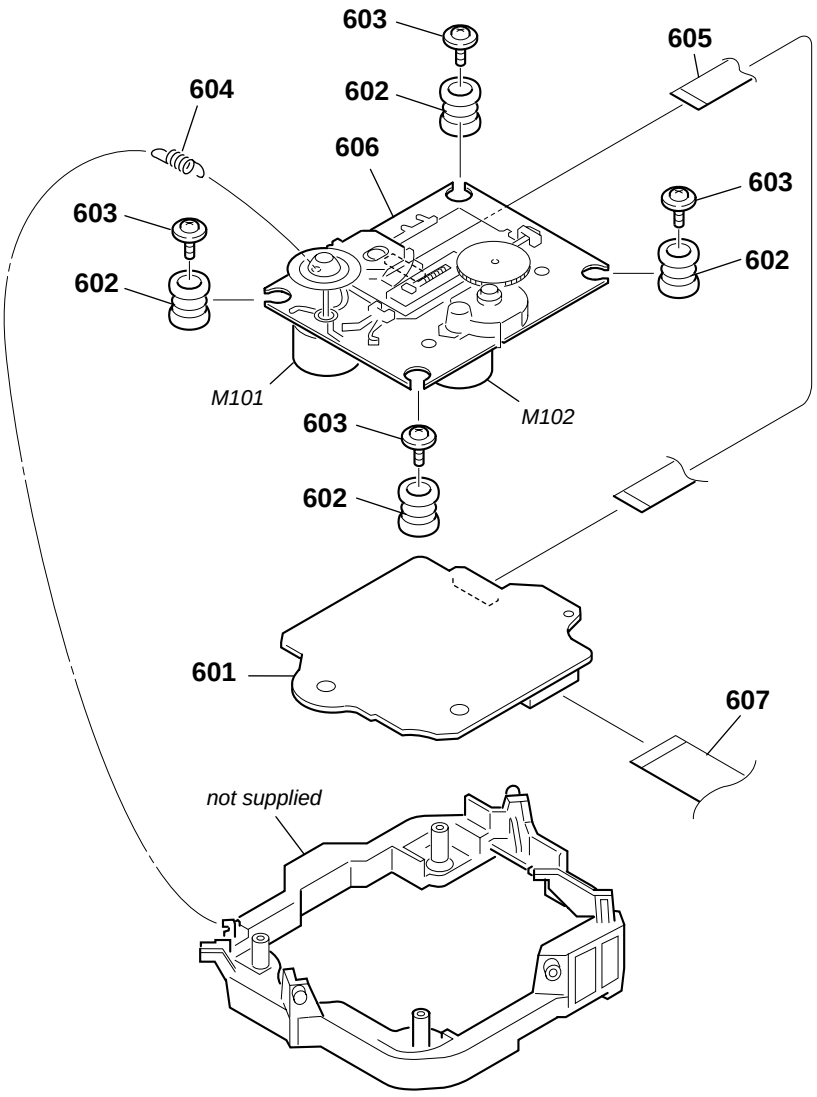
9-10. CD MECHANISM DECK SECTION 7 (CDM69CV-F4BD81B2)



Ref. No.	Part No.	Description	Remark
551	4-239-693-02	CAM (GEAR)	
552	1-686-723-13	SENSOR BOARD	
553	4-239-696-01	GEAR (EJECT LOCK)	
554	4-239-695-02	CAM (EJECT LOCK)	
555	4-240-019-01	GEAR (MODE 5)	
557	4-243-682-01	GEAR (MODE C)	
558	4-239-683-01	PULLEY (MODE DECELERATION)	
559	4-243-702-01	BELT (MODE V)	
560	4-243-683-01	GEAR (MODE D)	
561	4-239-618-02	SCREW (+PWH,2X6), STEP TAPPING	
562	4-243-681-01	GEAR (MODE B)	
563	4-951-620-01	SCREW (2.6X8), +BVTP	
564	4-239-692-02	CAM (BU U/D)	

Ref. No.	Part No.	Description	Remark
565	4-239-694-01	GEAR (MODE CAM)	
566	4-241-731-01	SHUTTER (A), LEVER	
567	4-241-732-01	SHUTTER (B), LEVER	
569	4-241-734-01	SHAFT (SHUTTER)	
570	4-241-735-01	SPRING (SHUTTER), COMPRESSION	
571	4-985-672-01	SCREW (+PTPWHM2.6), FROATING	
572	4-243-680-01	GEAR (MODE A)	
575	1-686-724-13	MODE MOTOR BOARD	
576	4-986-156-01	PULLEY, MOTOR	
M771	A-4735-953-A	MOTOR ASSY (MODE)	
S771	1-477-300-11	ENCODER, ROTARY (MODE)	
#4	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

9-11. OPTICAL PICK-UP SECTION



Ref. No.	Part No.	Description	Remark
601	A-1067-262-A	BD BOARD, COMPLETE	
602	4-992-054-11	RUBBER, VIBRATION PROOF	
603	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
604	4-253-308-01	SPRING (215V), TENSION	
605	1-827-992-11	WIRE (FLAT TYPE)(16 CORE)	
⚠606	8-820-252-01	OPTICAL PICK-UP (KSM-215CFP/C2NP)	(included in M101, M102)
607	1-828-403-11	WIRE (FLAT TYPE)(27 CORE)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 10
ELECTRICAL PARTS LIST

BD

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: μF
- COILS
  uH: μH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Accessories are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  E51 : Chilean and Peruvian model
  KR : Korean model
  SP : Singapore model
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA... , uPA... , μPA... ,
  uPB... , μPB... , uPC... , μPC... ,
  uPD..., μPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
	A-1067-262-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C10	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C11	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C14	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C15	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C16	1-115-156-11	CERAMIC CHIP	1uF		10V
C17	1-126-246-11	ELECT CHIP	220uF	20%	4V
C18	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C111	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C112	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C113	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C114	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C115	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C116	1-128-995-21	ELECT CHIP	100uF	20%	10V
C122	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C123	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C124	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C125	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C132	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C134	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C143	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C151	1-128-995-21	ELECT CHIP	100uF	20%	10V
C161	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C162	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C163	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C171	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C172	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C174	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C181	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C182	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C183	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C184	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C185	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C186	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C194	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C195	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C196	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C201	1-128-995-21	ELECT CHIP	100uF	20%	10V
C203	1-128-995-21	ELECT CHIP	100uF	20%	10V
C209	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C211	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C212	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C213	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C251	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C252	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C255	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C257	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C258	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C259	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C260	1-128-394-11	ELECT CHIP	220uF	20%	10V
C302	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C303	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C305	1-126-246-11	ELECT CHIP	220uF	20%	4V
C306	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C307	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C308	1-126-208-21	ELECT CHIP	47uF	20%	4V
C309	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C310	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C311	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C312	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C313	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C314	1-126-208-21	ELECT CHIP	47uF	20%	4V
C315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C316	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C318	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C320	1-216-864-11	SHORT CHIP	0		
C401	1-216-864-11	SHORT CHIP	0		
		< CONNECTOR >			
CN101	1-770-425-11	CONNECTOR, FFC/FPC 16P			
CN201	1-818-350-11	CONNECTOR (FFC) 27P			
		< FERRITE BEAD >			
FB301	1-500-445-21	FERRITE, EMI (SMD) (2012)			

BD CONNECTOR

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC101	8-752-425-12	IC CXD3059AR			
IC251	6-705-808-01	IC BA5947FM			
IC301	6-705-365-01	IC TC94A34FG-002			
IC303	6-705-807-01	IC BH15FB1WG			
		< TRANSISTOR >			
Q10	6-550-363-01	TRANSISTOR	2SB1690KT146		
		< RESISTOR >			
R10	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R11	1-216-864-11	SHORT CHIP	0		
R12	1-216-845-11	METAL CHIP	100K	5%	1/10W
R13	1-218-446-11	METAL CHIP	1	5%	1/10W
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R112	1-216-835-11	METAL CHIP	15K	5%	1/10W
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R114	1-216-835-11	METAL CHIP	15K	5%	1/10W
R121	1-216-835-11	METAL CHIP	15K	5%	1/10W
R131	1-216-857-11	METAL CHIP	1M	5%	1/10W
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R133	1-216-848-11	METAL CHIP	180K	5%	1/10W
R141	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R142	1-216-821-11	METAL CHIP	1K	5%	1/10W
R143	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0		
R162	1-216-841-11	METAL CHIP	47K	5%	1/10W
R163	1-216-809-11	METAL CHIP	100	5%	1/10W
R165	1-216-864-11	SHORT CHIP	0		
R171	1-216-817-11	METAL CHIP	470	5%	1/10W
R172	1-216-857-11	METAL CHIP	1M	5%	1/10W
R173	1-216-295-91	SHORT CHIP	0		
R181	1-216-809-11	METAL CHIP	100	5%	1/10W
R182	1-216-809-11	METAL CHIP	100	5%	1/10W
R191	1-216-864-11	SHORT CHIP	0		
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R203	1-216-864-11	SHORT CHIP	0		
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R205	1-216-864-11	SHORT CHIP	0		
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W
R305	1-216-845-11	METAL CHIP	100K	5%	1/10W
R306	1-216-864-11	SHORT CHIP	0		
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R313	1-216-813-11	METAL CHIP	220	5%	1/10W
R351	1-216-809-11	METAL CHIP	100	5%	1/10W
R352	1-216-809-11	METAL CHIP	100	5%	1/10W
R353	1-216-809-11	METAL CHIP	100	5%	1/10W
R354	1-216-809-11	METAL CHIP	100	5%	1/10W
R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W
R410	1-216-809-11	METAL CHIP	100	5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-809-11	METAL CHIP	100	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W
		< VIBRATOR >			
X171	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
	A-4731-113-A	CONNECTOR BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C711	1-126-795-11	ELECT	10uF	20%	50V
C751	1-164-159-21	CERAMIC	0.1uF		50V
C752	1-164-159-21	CERAMIC	0.1uF		50V
C753	1-164-159-21	CERAMIC	0.1uF		50V
C754	1-164-159-21	CERAMIC	0.1uF		50V
C755	1-164-159-21	CERAMIC	0.1uF		50V
C756	1-164-159-21	CERAMIC	0.1uF		50V
C758	1-164-159-21	CERAMIC	0.1uF		50V
C761	1-162-306-11	CERAMIC	0.01uF	20%	16V
C762	1-164-159-21	CERAMIC	0.1uF		50V
C763	1-164-159-21	CERAMIC	0.1uF		50V
C764	1-164-159-21	CERAMIC	0.1uF		50V
C765	1-164-159-21	CERAMIC	0.1uF		50V
C766	1-164-159-21	CERAMIC	0.1uF		50V
C767	1-164-159-21	CERAMIC	0.1uF		50V
C768	1-164-159-21	CERAMIC	0.1uF		50V
C769	1-164-159-21	CERAMIC	0.1uF		50V
C771	1-162-306-11	CERAMIC	0.01uF	20%	16V
C781	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< CONNECTOR >			
CN701	1-779-564-21	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			
CN702	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P			
CN703	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P			
* CN710	1-506-486-11	PIN, CONNECTOR 7P			
		< DIODE >			
D701	8-719-921-44	DIODE MTZJ-5.1C			
D711	8-719-109-92	DIODE RD6.2ESB1			
D721	8-719-982-11	DIODE MTZJ-4.3B			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC711	8-759-598-69	IC BA6956AN			
IC721	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q731	8-729-029-66	TRANSISTOR	DTC114ESA		

CONNECTOR FRONT

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R701	1-249-415-11	CARBON	680	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R711	1-249-415-11	CARBON	680	5%	1/4W
R712	1-247-807-31	CARBON	100	5%	1/4W
R721	1-249-415-11	CARBON	680	5%	1/4W
R722	1-247-807-31	CARBON	100	5%	1/4W
R731	1-247-806-11	CARBON	91	5%	1/4W
R732	1-249-417-11	CARBON	1K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W
**********					
	A-4751-916-A	FRONT BOARD, COMPLETE			
		**********			
	4-249-384-01	HOLDER (LCD)			
		< CAPACITOR >			
C902	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C907	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C908	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C909	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C927	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C928	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C929	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C960	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C961	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C986	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C987	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C988	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C997	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN905	1-779-556-21	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
		< DIODE >			
D901	6-500-588-01	DIODE SLI-325URCT31W (I/⏻)			
D902	8-719-075-50	DIODE SELS6B14C-TP5 (i-Bass)			
D903	8-719-056-78	DIODE UDZ-TE-17-4.3B			
D904	8-719-914-42	DIODE DA204K			
D905	6-500-943-01	DIODE SELU1910CXM-SLF38			
D906	6-500-943-01	DIODE SELU1910CXM-SLF38			
D907	6-500-943-01	DIODE SELU1910CXM-SLF38			
		< IC >			
IC902	6-600-174-01	IC RPM7240-H4 (R)			
		< LIQUID CRYSTAL DISPLAY >			
LCD901	1-805-572-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q994	8-729-027-46	TRANSISTOR	DTC114YKA-T146		
Q995	8-729-027-46	TRANSISTOR	DTC114YKA-T146		
Q996	8-729-120-28	TRANSISTOR	2SC1623-L5L6		

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R795	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R903	1-216-805-11	METAL CHIP	47	5%	1/10W
R904	1-216-805-11	METAL CHIP	47	5%	1/10W
R925	1-216-841-11	METAL CHIP	47K	5%	1/10W
R926	1-216-838-11	METAL CHIP	27K	5%	1/10W
R927	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R928	1-216-797-11	METAL CHIP	10	5%	1/10W
R929	1-216-817-11	METAL CHIP	470	5%	1/10W
R930	1-216-821-11	METAL CHIP	1K	5%	1/10W
R931	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R932	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R934	1-216-838-11	METAL CHIP	27K	5%	1/10W
R935	1-216-841-11	METAL CHIP	47K	5%	1/10W
R936	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R937	1-216-821-11	METAL CHIP	1K	5%	1/10W
R938	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R939	1-216-838-11	METAL CHIP	27K	5%	1/10W
R940	1-216-841-11	METAL CHIP	47K	5%	1/10W
R941	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R942	1-216-821-11	METAL CHIP	1K	5%	1/10W
R943	1-216-166-00	RES-CHIP	47	5%	1/8W
R944	1-216-841-11	METAL CHIP	47K	5%	1/10W
R946	1-216-813-11	METAL CHIP	220	5%	1/10W
R947	1-216-797-11	METAL CHIP	10	5%	1/10W
R948	1-216-815-11	METAL CHIP	330	5%	1/10W
R950	1-216-817-11	METAL CHIP	470	5%	1/10W
R952	1-216-819-11	METAL CHIP	680	5%	1/10W
R954	1-216-821-11	METAL CHIP	1K	5%	1/10W
R955	1-216-821-11	METAL CHIP	1K	5%	1/10W
R956	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R957	1-216-821-11	METAL CHIP	1K	5%	1/10W
R958	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R961	1-216-813-11	METAL CHIP	220	5%	1/10W
R963	1-216-815-11	METAL CHIP	330	5%	1/10W
R965	1-216-817-11	METAL CHIP	470	5%	1/10W
R967	1-216-819-11	METAL CHIP	680	5%	1/10W
R969	1-216-821-11	METAL CHIP	1K	5%	1/10W
R971	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R973	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R975	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R976	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R977	1-216-833-11	METAL CHIP	10K	5%	1/10W
R979	1-216-178-00	RES-CHIP	150	5%	1/8W
R981	1-216-198-91	RES-CHIP	1K	5%	1/8W
R983	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R984	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R985	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R986	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R987	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R988	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R989	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R990	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R991	1-216-851-11	METAL CHIP	330K	5%	1/10W
R992	1-216-853-11	METAL CHIP	470K	5%	1/10W

FRONT | HP | MAIN

Ref. No.	Part No.	Description			Remarks
R993	1-216-864-11	SHORT CHIP	0		
R994	1-216-819-11	METAL CHIP	680	5%	1/10W
		< SWITCH >			
S921	1-478-642-11	ENCODER, ROTARY (VOLUME)			
S922	1-418-859-21	ENCODER, ROTARY (BASS)			
S923	1-418-859-21	ENCODER, ROTARY (TREBLE)			
S924	1-771-410-21	SWITCH, TACTILE (I/⏻)			
S925	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S926	1-771-410-21	SWITCH, TACTILE (⏏ CD)			
S927	1-771-410-21	SWITCH, TACTILE (DISC 1)			
S928	1-771-410-21	SWITCH, TACTILE (DISC 2)			
S929	1-771-410-21	SWITCH, TACTILE (DISC 3)			
S930	1-771-410-21	SWITCH, TACTILE (DISC 4)			
S931	1-771-410-21	SWITCH, TACTILE (DISC 5)			
S932	1-771-410-21	SWITCH, TACTILE (■)			
S933	1-771-410-21	SWITCH, TACTILE (● REC PAUSE/START)			
S934	1-771-410-21	SWITCH, TACTILE (CD SYNC)			
S935	1-771-410-21	SWITCH, TACTILE (TAPE ◄ ►)			
S936	1-771-410-21	SWITCH, TACTILE (TUNER BAND)			
S937	1-771-410-21	SWITCH, TACTILE (FUNCTION)			
S938	1-771-410-21	SWITCH, TACTILE (CD ►II)			
S939	1-771-410-21	SWITCH, TACTILE (TUNING -)			
S940	1-771-410-21	SWITCH, TACTILE (YUNING +)			
S941	1-771-410-21	SWITCH, TACTILE (i-Bass)			
S942	1-771-410-21	SWITCH, TACTILE (DIRECTION)			
**********					
		HP BOARD			
		*********			
		< CONNECTOR >			
* CN203	1-564-520-11	PLUG, CONNECTOR 5P			
		< JACK >			
J202	1-816-219-11	JACK, HEADPHONE (PHONES)			
		< RESISTOR >			
R259	1-260-320-11	CARBON	220	5%	1/2W
R260	1-260-320-11	CARBON	220	5%	1/2W
R261	1-260-320-11	CARBON	220	5%	1/2W
R262	1-260-320-11	CARBON	220	5%	1/2W
R263	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R264	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
**********					
	A-1056-017-A	MAIN BOARD, COMPLETE (E51)			
	A-1060-715-A	MAIN BOARD, COMPLETE (SP)			
	A-1066-975-A	MAIN BOARD, COMPLETE (KR)			
	A-4751-184-A	MAIN BOARD, COMPLETE (AEP, UK)			
	A-4751-908-A	MAIN BOARD, COMPLETE (US, CND)			
		**********			
	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3			
		< CAPACITOR >			
C003	1-131-992-91	CERAMIC CHIP	100000PF		35V

Ref. No.	Part No.	Description			Remarks
C004	1-131-992-91	CERAMIC CHIP	100000PF		35V
C005	1-131-992-91	CERAMIC CHIP	100000PF		35V
C006	1-131-992-91	CERAMIC CHIP	100000PF		35V
C009	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C010	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C011	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C012	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C013	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C014	1-126-933-11	ELECT	100uF	20%	16V
C015	1-126-933-11	ELECT	100uF	20%	16V
C016	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C017	1-126-964-11	ELECT	10uF	20%	50V
C018	1-126-933-11	ELECT	100uF	20%	16V
C019	1-128-550-11	ELECT	2200uF	20%	50V
C020	1-128-550-11	ELECT	2200uF	20%	50V
C021	1-128-548-11	ELECT	4700uF	20%	25V
C022	1-128-548-11	ELECT	4700uF	20%	25V
C023	1-126-933-11	ELECT	100uF	20%	16V
C027	1-126-933-11	ELECT	100uF	20%	16V
C028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C029	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C030	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C031	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C033	1-126-961-11	ELECT	2.2uF	20%	50V
C034	1-126-947-11	ELECT	47uF	20%	35V
C035	1-126-933-11	ELECT	100uF	20%	16V
C036	1-126-935-11	ELECT	470uF	20%	16V
C037	1-126-963-11	ELECT	4.7uF	20%	50V
C061	1-126-947-11	ELECT	47uF	20%	35V
C083	1-126-941-11	ELECT	470uF	20%	25V
C097	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C101	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C102	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C103	1-126-960-11	ELECT	1uF	20%	50V
C104	1-126-960-11	ELECT	1uF	20%	50V
C107	1-126-947-11	ELECT	47uF	20%	35V
C108	1-126-947-11	ELECT	47uF	20%	35V
C111	1-126-967-11	ELECT	47uF	20%	50V
C112	1-126-967-11	ELECT	47uF	20%	50V
C113	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C114	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C117	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C118	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C119	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C120	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C121	1-126-960-11	ELECT	1uF	20%	50V
C122	1-126-960-11	ELECT	1uF	20%	50V
C123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C124	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C125	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C126	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C127	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C128	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C147	1-127-888-11	CERAMIC	0.1uF	10%	50V
C148	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C201	1-128-552-51	ELECT	47uF	20%	63V

MAIN

Ref. No.	Part No.	Description			Remarks
C202	1-128-552-51	ELECT	47uF	20%	63V
C203	1-126-961-11	ELECT	2.2uF	20%	50V
C225	1-130-495-00	MYLAR	0.1uF	5%	50V
C226	1-130-495-00	MYLAR	0.1uF	5%	50V
C227	1-130-495-00	MYLAR	0.1uF	5%	50V
C228	1-130-495-00	MYLAR	0.1uF	5%	50V
C231	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C232	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C240	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
⚠C250	1-113-920-11	CERAMIC	0.0022uF	20%	250V (E51, SP, KR)
⚠C251	1-113-920-11	CERAMIC	0.0022uF	20%	250V (E51, SP, KR)
C270	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C271	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C291	1-126-963-11	ELECT	4.7uF	20%	50V
C292	1-126-947-11	ELECT	47uF	20%	35V
C301	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C303	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C304	1-164-730-11	CERAMIC CHIP	0.0012uF	10%	50V
C310	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C363	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C451	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C452	1-104-662-91	ELECT	22uF	20%	25V
C453	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V
C454	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V
C455	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V
C456	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C457	1-137-459-11	MYLAR	0.0056uF	5%	100V
C460	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C461	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C462	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C463	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C466	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C467	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C468	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C501	1-126-963-11	ELECT	4.7uF	20%	50V
C502	1-126-956-91	ELECT	0.1uF	20%	50V
C503	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C504	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C505	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C506	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C507	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C508	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C509	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C510	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C511	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C512	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C513	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C514	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C516	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C517	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C519	1-126-963-11	ELECT	4.7uF	20%	50V
C520	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C521	1-126-963-11	ELECT	4.7uF	20%	50V
C523	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C524	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C601	1-104-661-91	ELECT	330uF	20%	16V
C602	1-126-923-91	ELECT	220uF	20%	10V
C603	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C604	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C605	1-126-933-11	ELECT	100uF	20%	16V
C606	1-126-933-11	ELECT	100uF	20%	16V
C607	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C608	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C609	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C610	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C611	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C612	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C613	1-126-963-11	ELECT	4.7uF	20%	50V
C614	1-126-963-11	ELECT	4.7uF	20%	50V
C615	1-136-167-00	FILM	0.15uF	5%	50V
C616	1-136-167-00	FILM	0.15uF	5%	50V
C617	1-136-167-00	FILM	0.15uF	5%	50V
C618	1-136-167-00	FILM	0.15uF	5%	50V
C621	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C622	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C623	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C624	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C625	1-126-964-11	ELECT	10uF	20%	50V
C626	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C629	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C630	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C631	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C632	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C634	1-164-218-11	CERAMIC CHIP	180PF	5%	50V
C635	1-164-218-11	CERAMIC CHIP	180PF	5%	50V
C637	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C638	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C639	1-126-947-11	ELECT	47uF	20%	35V
C640	1-126-947-11	ELECT	47uF	20%	35V
C643	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C644	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C648	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C649	1-126-960-11	ELECT	1uF	20%	50V
C650	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C652	1-126-960-11	ELECT	1uF	20%	50V
C653	1-126-963-11	ELECT	4.7uF	20%	50V
C654	1-126-963-11	ELECT	4.7uF	20%	50V
C655	1-126-960-11	ELECT	1uF	20%	50V
C656	1-126-960-11	ELECT	1uF	20%	50V
C657	1-104-655-91	ELECT	470uF	20%	6.3V
C658	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C689	1-126-960-11	ELECT	1uF	20%	50V
C690	1-126-960-11	ELECT	1uF	20%	50V
C696	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C699	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C867	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK)
C868	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C869	1-126-935-11	ELECT	470uF	20%	16V
C882	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C883	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description			Remarks
C903	1-126-964-11	ELECT	10uF	20%	50V
C905	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C906	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C907	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C908	1-126-933-11	ELECT	100uF	20%	16V
C909	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C910	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C911	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C912	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C913	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C914	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C915	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C916	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C917	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C918	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C919	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C921	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C924	1-115-456-21	CAPACITOR	0.22F		5.5V
C926	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C927	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C928	1-126-964-11	ELECT	10uF	20%	50V
C930	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C931	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C933	1-104-662-91	ELECT	22uF	20%	25V
C936	1-126-933-11	ELECT	100uF	20%	16V
C937	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C938	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C941	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C942	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C944	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C945	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C950	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C953	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C971	1-126-963-11	ELECT	4.7uF	20%	50V
C975	1-126-956-91	ELECT	0.1uF	20%	50V
		< CONNECTOR >			
CN202	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
CN251	1-770-128-11	PIN, CONNECTOR (3.96mm PITCH) 2P			(US, CND, AEP, UK)
* CN252	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P			(E51, SP, KR)
CN291	1-564-506-11	PLUG, CONNECTOR 3P			
CN602	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP, UK)			
CN602	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)			
CN701	1-568-826-11	CONNECTOR, FFC 7P			
CN901	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			
CN902	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P			
CN903	1-691-040-31	CONNECTOR, FFC 8P			
CN904	1-779-287-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
		< DIODE >			
D001	6-500-340-01	DIODE G5SBA60L-6088			
D002	6-500-340-01	DIODE G5SBA60L-6088			
D003	8-719-947-54	DIODE MTZJ-T-72-12C (EXCEPT AEP, UK)			
D010	8-719-991-33	DIODE 1SS133T-77			
D011	8-719-991-33	DIODE 1SS133T-77			

Ref. No.	Part No.	Description	Remarks
D012	8-719-991-33	DIODE 1SS133T-77	
D015	8-719-983-62	DIODE MTZJ-T-72-3.3A	
D016	8-719-991-33	DIODE 1SS133T-77	
D017	8-719-991-33	DIODE 1SS133T-77	
D020	8-719-991-33	DIODE 1SS133T-77	
D021	6-500-948-01	DIODE MTZJ-T-72-10C	
D022	8-719-991-33	DIODE 1SS133T-77	
D023	8-719-991-33	DIODE 1SS133T-77	
D024	8-719-991-33	DIODE 1SS133T-77	
D025	8-719-991-33	DIODE 1SS133T-77	
D026	8-719-991-33	DIODE 1SS133T-77	
D027	8-719-991-33	DIODE 1SS133T-77	
D028	8-719-991-33	DIODE 1SS133T-77	
D029	8-719-991-33	DIODE 1SS133T-77	
D030	8-719-991-33	DIODE 1SS133T-77	
D031	8-719-991-33	DIODE 1SS133T-77	
D034	8-719-991-33	DIODE 1SS133T-77	
D035	8-719-991-33	DIODE 1SS133T-77	
D036	8-719-991-33	DIODE 1SS133T-77	
D037	8-719-991-33	DIODE 1SS133T-77	
D038	8-719-991-33	DIODE 1SS133T-77	
D101	8-719-991-33	DIODE 1SS133T-77	
D102	8-719-991-33	DIODE 1SS133T-77	
D103	8-719-991-33	DIODE 1SS133T-77	
D104	8-719-991-33	DIODE 1SS133T-77	
D105	8-719-991-33	DIODE 1SS133T-77	
D106	8-719-991-33	DIODE 1SS133T-77	
D107	8-719-991-33	DIODE 1SS133T-77	
D108	8-719-991-33	DIODE 1SS133T-77	
D111	8-719-991-33	DIODE 1SS133T-77	
D112	8-719-991-33	DIODE 1SS133T-77	
D113	6-500-949-01	DIODE 1SS244-T-72	
D114	6-500-949-01	DIODE 1SS244-T-72	
D201	8-719-059-21	DIODE RK46LF-T2	
D202	8-719-059-21	DIODE RK46LF-T2	
D203	8-719-991-33	DIODE 1SS133T-77	
D204	8-719-991-33	DIODE 1SS133T-77	
D205	8-719-991-33	DIODE 1SS133T-77	
D206	8-719-991-33	DIODE 1SS133T-77	
D207	8-719-991-33	DIODE 1SS133T-77	
D208	8-719-991-33	DIODE 1SS133T-77	
D209	8-719-991-33	DIODE 1SS133T-77	
D210	8-719-991-33	DIODE 1SS133T-77	
D249	8-719-991-33	DIODE 1SS133T-77	
D250	8-719-991-33	DIODE 1SS133T-77	
D251	8-719-991-33	DIODE 1SS133T-77	
D252	8-719-991-33	DIODE 1SS133T-77	
D253	8-719-991-33	DIODE 1SS133T-77	
D254	8-719-991-33	DIODE 1SS133T-77	
D255	8-719-991-33	DIODE 1SS133T-77	
D256	8-719-991-33	DIODE 1SS133T-77	
D257	8-719-991-33	DIODE 1SS133T-77	
D294	8-719-991-33	DIODE 1SS133T-77	
D295	8-719-991-33	DIODE 1SS133T-77	
D301	8-719-991-33	DIODE 1SS133T-77	
D302	8-719-991-33	DIODE 1SS133T-77	
D501	8-719-991-33	DIODE 1SS133T-77	

MAIN

Ref. No.	Part No.	Description	Remarks
D502	8-719-983-01	DIODE MTZJ-T-72-2.2B	
D601	8-719-947-12	DIODE MTZJ-T-72-4.7A	
D602	8-719-947-12	DIODE MTZJ-T-72-4.7A	
D603	8-719-991-33	DIODE 1SS133T-77	
D604	8-719-991-33	DIODE 1SS133T-77	
D605	8-719-991-33	DIODE 1SS133T-77	
D606	8-719-991-33	DIODE 1SS133T-77	
D607	8-719-991-33	DIODE 1SS133T-77	
D608	8-719-991-33	DIODE 1SS133T-77	
D609	8-719-991-33	DIODE 1SS133T-77	
D610	8-719-991-33	DIODE 1SS133T-77	
D703	8-719-991-33	DIODE 1SS133T-77	
D862	8-719-991-33	DIODE 1SS133T-77	
D901	8-719-991-33	DIODE 1SS133T-77	
D904	8-719-991-33	DIODE 1SS133T-77	
D905	8-719-991-33	DIODE 1SS133T-77	
D907	8-719-991-33	DIODE 1SS133T-77	
D908	8-719-991-33	DIODE 1SS133T-77	
D911	6-500-948-01	DIODE MTZJ-T-72-10C	
		< EARTH TERMINAL >	
* EP001	1-537-738-21	TERMINAL, EARTH	
* EP002	1-537-738-21	TERMINAL, EARTH	
* EP003	1-537-738-21	TERMINAL, EARTH	
* EP004	1-537-738-21	TERMINAL, EARTH	
		< SHORT >	
FB601	1-216-295-91	SHORT CHIP 0	
FB602	1-216-295-91	SHORT CHIP 0	
		< IC >	
IC001	8-759-071-48	IC TA7807S	
IC501	8-759-100-96	IC uPC4558G2	
IC502	8-759-100-96	IC uPC4558G2	
IC601	6-702-800-01	IC BD3882FV	
IC605	8-759-525-25	IC BU4052BCF-E2	
IC901	6-804-271-01	IC M3062CMEN-A08FPU0	
IC902	6-704-135-01	IC MM1614A	
IC904	8-759-713-61	IC PST3429UL	
		< JACK >	
* J201	1-537-240-41	TERMINAL BOARD (CHECKER PIN) (SPEAKERS 🔊)(US, CND)	
J201	1-537-925-22	TERMINAL BOARD (CHECKER PIN) (SPEAKERS 🔊)(EXCEPT US, CND)	
J602	1-766-556-51	JACK, PIN 3P (SUB WOOFER/AUX IN)	
		< SHORT >	
JR001	1-216-296-11	SHORT CHIP 0	
JR002	1-216-864-11	SHORT CHIP 0	
JR111	1-216-864-11	SHORT CHIP 0	
JR112	1-216-864-11	SHORT CHIP 0	
JR312	1-216-864-11	SHORT CHIP 0	
JR501	1-216-864-11	SHORT CHIP 0	
JR502	1-216-296-11	SHORT CHIP 0	
JR609	1-216-864-11	SHORT CHIP 0	
JR611	1-216-864-11	SHORT CHIP 0	
JR612	1-216-864-11	SHORT CHIP 0	
JR613	1-216-864-11	SHORT CHIP 0	
JR614	1-216-864-11	SHORT CHIP 0	
JR697	1-216-864-11	SHORT CHIP 0	
JR901	1-216-864-11	SHORT CHIP 0	
JR902	1-216-864-11	SHORT CHIP 0	
JR903	1-216-833-11	METAL CHIP 10K 5% 1/10W	
JR906	1-216-864-11	SHORT CHIP 0	
JR911	1-216-296-11	SHORT CHIP 0	
JR915	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L201	1-456-107-11	COIL, AIR-CORE	
L202	1-456-107-11	COIL, AIR-CORE	
L451	1-456-094-11	TRANSFORMER, BIAS OSCILLATION	
		< TRANSFORMER >	
⚠PT251	1-439-734-11	TRANSFORMER, POWER (US, CND)	
⚠PT251	1-439-735-11	TRANSFORMER, POWER (AEP, UK)	
⚠PT251	1-439-736-11	TRANSFORMER, POWER (E51, SP, KR)	
		< TRANSISTOR >	
Q006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q009	8-729-045-00	TRANSISTOR KTA1266GR-AT	
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q011	8-729-209-60	TRANSISTOR 2SB1375	
Q012	8-729-036-89	TRANSISTOR KTC3198GR-AT	
Q015	8-729-600-22	TRANSISTOR 2SA1235-F	
Q018	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q019	8-729-209-60	TRANSISTOR 2SB1375	
Q020	8-729-195-23	TRANSISTOR 2SA952-K2	
Q021	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q060	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q061	8-729-600-22	TRANSISTOR 2SA1235-F	
Q062	8-729-600-22	TRANSISTOR 2SA1235-F	
Q063	8-729-600-22	TRANSISTOR 2SA1235-F	
Q064	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q065	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q103	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
Q104	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
Q105	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
Q106	8-729-021-88	TRANSISTOR 2SA1587-BL (TE85L)	
Q107	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q108	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q109	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q111	8-729-045-02	TRANSISTOR KTC3200GR-AT	
Q112	8-729-045-02	TRANSISTOR KTC3200GR-AT	
Q113	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q114	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q117	6-550-309-01	TRANSISTOR 2SB1686	
Q118	6-550-309-01	TRANSISTOR 2SB1686	
Q119	6-550-311-01	TRANSISTOR 2SD2642	
Q120	6-550-311-01	TRANSISTOR 2SD2642	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description			Remarks
Q123	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)		
Q124	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)		
Q127	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q128	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q201	6-550-843-01	TRANSISTOR	2SJ599-Z-E2		
Q202	6-550-842-01	TRANSISTOR	2SK3377-Z-E2		
Q203	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q204	8-729-600-22	TRANSISTOR	2SA1235-F		
Q205	8-729-600-22	TRANSISTOR	2SA1235-F		
Q206	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q235	8-729-600-22	TRANSISTOR	2SA1235-F		
Q250	6-550-317-01	TRANSISTOR	2SD0814A0LS0		
Q251	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)		
Q280	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q281	8-729-021-88	TRANSISTOR	2SA1587-BL (TE85L)		
Q291	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q292	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q293	8-729-036-89	TRANSISTOR	KTC3198GR-AT		
Q294	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q305	8-729-600-22	TRANSISTOR	2SA1235-F		
Q306	8-729-600-22	TRANSISTOR	2SA1235-F		
Q307	8-729-048-99	TRANSISTOR	2SK2541-T		
Q308	8-729-048-99	TRANSISTOR	2SK2541-T		
Q309	8-729-048-99	TRANSISTOR	2SK2541-T		
Q451	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2		
Q452	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q453	8-729-044-60	TRANSISTOR	2SC3383-T-AA		
Q454	8-729-044-60	TRANSISTOR	2SC3383-T-AA		
Q501	8-729-045-62	TRANSISTOR	2SK2158-T2B		
Q502	8-729-045-62	TRANSISTOR	2SK2158-T2B		
Q503	8-729-045-62	TRANSISTOR	2SK2158-T2B		
Q504	8-729-045-62	TRANSISTOR	2SK2158-T2B		
Q505	8-729-203-31	TRANSISTOR	2SJ106-GR		
Q506	8-729-203-31	TRANSISTOR	2SJ106-GR		
Q507	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q508	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q509	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q510	8-729-027-43	TRANSISTOR	DTC114EKA-T146		
Q601	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q607	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q608	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q901	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q902	8-729-027-46	TRANSISTOR	DTC114YKA-T146		
Q903	8-729-027-46	TRANSISTOR	DTC114YKA-T146		
Q904	6-550-305-01	TRANSISTOR	2SA1296GR-(TPE2)		
Q905	8-729-195-23	TRANSISTOR	2SA952-K2		
Q906	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
		< RESISTOR >			
R015	1-216-837-11	METAL CHIP	22K	5%	1/10W
R016	1-249-413-11	CARBON	470	5%	1/4W
R017	1-216-841-11	METAL CHIP	47K	5%	1/10W
R018	1-216-809-11	METAL CHIP	100	5%	1/10W
R019	1-216-817-11	METAL CHIP	470	5%	1/10W
R020	1-249-381-11	CARBON	1	5%	1/4W
R021	1-249-381-11	CARBON	1	5%	1/4W
R022	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R023	1-216-809-11	METAL CHIP	100	5%	1/10W
R024	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R025	1-247-879-91	CARBON	100K	5%	1/4W
R026	1-216-833-11	METAL CHIP	10K	5%	1/10W
R028	1-216-033-00	RES-CHIP	220	5%	1/10W
R029	1-216-841-11	METAL CHIP	47K	5%	1/10W
R030	1-216-837-11	METAL CHIP	22K	5%	1/10W
R031	1-216-809-11	METAL CHIP	100	5%	1/10W
R033	1-216-817-11	METAL CHIP	470	5%	1/10W
R034	1-216-849-11	METAL CHIP	220K	5%	1/10W
R035	1-216-841-11	METAL CHIP	47K	5%	1/10W
R036	1-216-841-11	METAL CHIP	47K	5%	1/10W
R038	1-247-807-31	CARBON	100	5%	1/4W
R042	1-249-409-11	CARBON	220	5%	1/4W
R043	1-249-409-11	CARBON	220	5%	1/4W
R044	1-249-409-11	CARBON	220	5%	1/4W
R045	1-247-807-31	CARBON	100	5%	1/4W
R046	1-247-807-31	CARBON	100	5%	1/4W
R047	1-249-409-11	CARBON	220	5%	1/4W
R048	1-249-409-11	CARBON	220	5%	1/4W
R049	1-249-409-11	CARBON	220	5%	1/4W
R051	1-216-821-11	METAL CHIP	1K	5%	1/10W
R052	1-216-821-11	METAL CHIP	1K	5%	1/10W
R053	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT AEP, UK)
R056	1-216-805-11	METAL CHIP	47	5%	1/10W
R057	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R058	1-216-833-11	METAL CHIP	10K	5%	1/10W
R059	1-216-813-11	METAL CHIP	220	5%	1/10W
R060	1-216-817-11	METAL CHIP	470	5%	1/10W
R061	1-216-837-11	METAL CHIP	22K	5%	1/10W
R062	1-216-841-11	METAL CHIP	47K	5%	1/10W
R063	1-216-833-11	METAL CHIP	10K	5%	1/10W
R064	1-216-833-11	METAL CHIP	10K	5%	1/10W
R065	1-216-841-11	METAL CHIP	47K	5%	1/10W
R070	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R071	1-216-842-11	METAL CHIP	56K	5%	1/10W
R072	1-216-842-11	METAL CHIP	56K	5%	1/10W
R076	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R077	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R078	1-216-840-11	METAL CHIP	39K	5%	1/10W
R079	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R080	1-216-841-11	METAL CHIP	47K	5%	1/10W
R081	1-216-809-11	METAL CHIP	100	5%	1/10W
R082	1-216-837-11	METAL CHIP	22K	5%	1/10W
R083	1-216-841-11	METAL CHIP	47K	5%	1/10W
R084	1-216-837-11	METAL CHIP	22K	5%	1/10W
R093	1-216-844-11	METAL CHIP	82K	5%	1/10W
R094	1-216-840-11	METAL CHIP	39K	5%	1/10W
R095	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R096	1-216-844-11	METAL CHIP	82K	5%	1/10W
R103	1-216-834-11	METAL CHIP	12K	5%	1/10W
R104	1-216-834-11	METAL CHIP	12K	5%	1/10W
R105	1-216-838-11	METAL CHIP	27K	5%	1/10W
R106	1-216-838-11	METAL CHIP	27K	5%	1/10W
R107	1-216-809-11	METAL CHIP	100	5%	1/10W
R108	1-216-809-11	METAL CHIP	100	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remarks
R109	1-216-845-11	METAL CHIP	100K	5%	1/10W
R111	1-216-820-11	METAL CHIP	820	5%	1/10W
R112	1-216-820-11	METAL CHIP	820	5%	1/10W
R113	1-216-838-11	METAL CHIP	27K	5%	1/10W
R114	1-249-434-11	CARBON	27K	5%	1/4W
R115	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R116	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R117	1-216-833-11	METAL CHIP	10K	5%	1/10W
R118	1-216-833-11	METAL CHIP	10K	5%	1/10W
R119	1-216-809-11	METAL CHIP	100	5%	1/10W
R120	1-216-809-11	METAL CHIP	100	5%	1/10W
R121	1-216-809-11	METAL CHIP	100	5%	1/10W
R122	1-216-809-11	METAL CHIP	100	5%	1/10W
R123	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R124	1-216-206-00	RES-CHIP	2.2K	5%	1/8W
R125	1-216-198-91	RES-CHIP	1K	5%	1/8W
R126	1-216-198-91	RES-CHIP	1K	5%	1/8W
R127	1-216-805-11	METAL CHIP	47	5%	1/10W
R128	1-216-805-11	METAL CHIP	47	5%	1/10W
⚠R129	1-216-361-31	METAL OXIDE	0.22	5%	2W
⚠R130	1-216-361-31	METAL OXIDE	0.22	5%	2W
⚠R131	1-216-361-31	METAL OXIDE	0.22	5%	2W
⚠R132	1-216-361-31	METAL OXIDE	0.22	5%	2W
R133	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R134	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R135	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R136	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R137	1-216-809-11	METAL CHIP	100	5%	1/10W
R138	1-216-809-11	METAL CHIP	100	5%	1/10W
R141	1-216-049-11	RES-CHIP	1K	5%	1/10W
R142	1-216-049-11	RES-CHIP	1K	5%	1/10W
R143	1-216-833-11	METAL CHIP	10K	5%	1/10W
R144	1-216-833-11	METAL CHIP	10K	5%	1/10W
R150	1-216-833-11	METAL CHIP	10K	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0		
R152	1-216-864-11	SHORT CHIP	0		
R155	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R156	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R157	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R158	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R165	1-216-821-11	METAL CHIP	1K	5%	1/10W
R166	1-216-821-11	METAL CHIP	1K	5%	1/10W
R171	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R172	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R173	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R174	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R175	1-216-815-11	METAL CHIP	330	5%	1/10W
R176	1-216-815-11	METAL CHIP	330	5%	1/10W
R177	1-216-835-11	METAL CHIP	15K	5%	1/10W
R178	1-216-835-11	METAL CHIP	15K	5%	1/10W
R181	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R182	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R183	1-216-841-11	METAL CHIP	47K	5%	1/10W
R185	1-216-857-11	METAL CHIP	1M	5%	1/10W
R201	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R202	1-216-823-11	METAL CHIP	1.5K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R203	1-216-817-11	METAL CHIP	470	5%	1/10W
R204	1-216-817-11	METAL CHIP	470	5%	1/10W
R205	1-216-845-11	METAL CHIP	100K	5%	1/10W
R206	1-216-845-11	METAL CHIP	100K	5%	1/10W
R207	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R208	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R209	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R210	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R211	1-216-833-11	METAL CHIP	10K	5%	1/10W
R212	1-216-833-11	METAL CHIP	10K	5%	1/10W
R213	1-216-821-11	METAL CHIP	1K	5%	1/10W
R214	1-216-821-11	METAL CHIP	1K	5%	1/10W
R215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R217	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R218	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R219	1-216-821-11	METAL CHIP	1K	5%	1/10W
R221	1-216-845-11	METAL CHIP	100K	5%	1/10W
R222	1-216-845-11	METAL CHIP	100K	5%	1/10W
R223	1-216-838-11	METAL CHIP	27K	5%	1/10W
R224	1-216-838-11	METAL CHIP	27K	5%	1/10W
R225	1-216-821-11	METAL CHIP	1K	5%	1/10W
R226	1-216-821-11	METAL CHIP	1K	5%	1/10W
R227	1-216-837-11	METAL CHIP	22K	5%	1/10W
R250	1-249-393-11	CARBON	10	5%	1/4W
R251	1-249-393-11	CARBON	10	5%	1/4W
R252	1-249-393-11	CARBON	10	5%	1/4W
R253	1-249-393-11	CARBON	10	5%	1/4W
R255	1-216-837-11	METAL CHIP	22K	5%	1/10W
R256	1-216-837-11	METAL CHIP	22K	5%	1/10W
R257	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R270	1-216-833-11	METAL CHIP	10K	5%	1/10W
R271	1-216-833-11	METAL CHIP	10K	5%	1/10W
R272	1-216-841-11	METAL CHIP	47K	5%	1/10W
R273	1-216-833-11	METAL CHIP	10K	5%	1/10W
R274	1-216-833-11	METAL CHIP	10K	5%	1/10W
R280	1-216-841-11	METAL CHIP	47K	5%	1/10W
R281	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R282	1-216-833-11	METAL CHIP	10K	5%	1/10W
R291	1-216-833-11	METAL CHIP	10K	5%	1/10W
R292	1-216-833-11	METAL CHIP	10K	5%	1/10W
R293	1-216-836-11	METAL CHIP	18K	5%	1/10W
R294	1-216-845-11	METAL CHIP	100K	5%	1/10W
R295	1-216-841-11	METAL CHIP	47K	5%	1/10W
R296	1-216-864-11	SHORT CHIP	0		
R297	1-216-833-11	METAL CHIP	10K	5%	1/10W
R298	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R299	1-216-142-00	RES-CHIP	4.7	5%	1/8W
R303	1-216-844-11	METAL CHIP	82K	5%	1/10W
R304	1-216-844-11	METAL CHIP	82K	5%	1/10W
R305	1-216-849-11	METAL CHIP	220K	5%	1/10W
R306	1-216-821-11	METAL CHIP	1K	5%	1/10W
R307	1-216-821-11	METAL CHIP	1K	5%	1/10W
R451	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R453	1-247-831-91	CARBON	1K	5%	1/4W
R454	1-249-392-11	CARBON	8.2	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description			Remarks
R455	1-216-836-11	METAL CHIP	18K	5%	1/10W
R456	1-216-836-11	METAL CHIP	18K	5%	1/10W
R457	1-216-845-11	METAL CHIP	100K	5%	1/10W
R458	1-216-842-11	METAL CHIP	56K	5%	1/10W
R459	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R461	1-216-835-11	METAL CHIP	15K	5%	1/10W
R462	1-216-835-11	METAL CHIP	15K	5%	1/10W
R501	1-216-837-11	METAL CHIP	22K	5%	1/10W
R502	1-216-837-11	METAL CHIP	22K	5%	1/10W
R503	1-216-833-11	METAL CHIP	10K	5%	1/10W
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W
R505	1-216-845-11	METAL CHIP	100K	5%	1/10W
R506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R507	1-216-845-11	METAL CHIP	100K	5%	1/10W
R508	1-216-845-11	METAL CHIP	100K	5%	1/10W
R509	1-216-845-11	METAL CHIP	100K	5%	1/10W
R510	1-216-845-11	METAL CHIP	100K	5%	1/10W
R511	1-216-841-11	METAL CHIP	47K	5%	1/10W
R512	1-216-841-11	METAL CHIP	47K	5%	1/10W
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W
R514	1-216-845-11	METAL CHIP	100K	5%	1/10W
R515	1-216-857-11	METAL CHIP	1M	5%	1/10W
R516	1-216-857-11	METAL CHIP	1M	5%	1/10W
R517	1-216-845-11	METAL CHIP	100K	5%	1/10W
R518	1-216-845-11	METAL CHIP	100K	5%	1/10W
R519	1-216-845-11	METAL CHIP	100K	5%	1/10W
R520	1-216-845-11	METAL CHIP	100K	5%	1/10W
R521	1-216-849-11	METAL CHIP	220K	5%	1/10W
R522	1-216-849-11	METAL CHIP	220K	5%	1/10W
R523	1-216-849-11	METAL CHIP	220K	5%	1/10W
R524	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R525	1-216-843-11	METAL CHIP	68K	5%	1/10W
R527	1-216-821-11	METAL CHIP	1K	5%	1/10W
R528	1-216-821-11	METAL CHIP	1K	5%	1/10W
R529	1-216-833-11	METAL CHIP	10K	5%	1/10W
R530	1-216-833-11	METAL CHIP	10K	5%	1/10W
R531	1-216-833-11	METAL CHIP	10K	5%	1/10W
R532	1-216-833-11	METAL CHIP	10K	5%	1/10W
R533	1-216-821-11	METAL CHIP	1K	5%	1/10W
R601	1-216-806-11	METAL CHIP	56	5%	1/10W
R602	1-216-806-11	METAL CHIP	56	5%	1/10W
R603	1-216-852-11	METAL CHIP	390K	5%	1/10W
R604	1-216-852-11	METAL CHIP	390K	5%	1/10W
R605	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R606	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R607	1-216-836-11	METAL CHIP	18K	5%	1/10W
R608	1-216-836-11	METAL CHIP	18K	5%	1/10W
R609	1-216-834-11	METAL CHIP	12K	5%	1/10W
R610	1-216-834-11	METAL CHIP	12K	5%	1/10W
R611	1-216-833-11	METAL CHIP	10K	5%	1/10W
R612	1-216-833-11	METAL CHIP	10K	5%	1/10W
R613	1-216-835-11	METAL CHIP	15K	5%	1/10W
R614	1-216-835-11	METAL CHIP	15K	5%	1/10W
R615	1-247-831-91	CARBON	1K	5%	1/4W
R616	1-247-831-91	CARBON	1K	5%	1/4W
R617	1-216-836-11	METAL CHIP	18K	5%	1/10W
R618	1-216-836-11	METAL CHIP	18K	5%	1/10W
R619	1-216-829-11	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R620	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R621	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R622	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R623	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R624	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R625	1-216-837-11	METAL CHIP	22K	5%	1/10W
R626	1-216-837-11	METAL CHIP	22K	5%	1/10W
R627	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R628	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R629	1-216-835-11	METAL CHIP	15K	5%	1/10W
R630	1-216-835-11	METAL CHIP	15K	5%	1/10W
R631	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R632	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R633	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R634	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R635	1-216-821-11	METAL CHIP	1K	5%	1/10W
R636	1-216-821-11	METAL CHIP	1K	5%	1/10W
R637	1-216-821-11	METAL CHIP	1K	5%	1/10W
R638	1-216-821-11	METAL CHIP	1K	5%	1/10W
R639	1-216-836-11	METAL CHIP	18K	5%	1/10W
R640	1-216-836-11	METAL CHIP	18K	5%	1/10W
R641	1-247-847-91	CARBON	4.7K	5%	1/4W
R642	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R643	1-216-845-11	METAL CHIP	100K	5%	1/10W
R644	1-216-845-11	METAL CHIP	100K	5%	1/10W
R645	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R646	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R647	1-216-833-11	METAL CHIP	10K	5%	1/10W
R648	1-216-816-11	METAL CHIP	390	5%	1/10W
R649	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R650	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R651	1-216-815-11	METAL CHIP	330	5%	1/10W
R652	1-249-411-11	CARBON	330	5%	1/4W
R653	1-216-821-11	METAL CHIP	1K	5%	1/10W
R654	1-247-831-91	CARBON	1K	5%	1/4W
R655	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R656	1-249-427-11	CARBON	6.8K	5%	1/4W
R657	1-216-833-11	METAL CHIP	10K	5%	1/10W
R658	1-216-833-11	METAL CHIP	10K	5%	1/10W
R660	1-216-853-11	METAL CHIP	470K	5%	1/10W
R661	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R662	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R663	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R664	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R665	1-216-853-11	METAL CHIP	470K	5%	1/10W
R667	1-216-843-11	METAL CHIP	68K	5%	1/10W
R668	1-216-843-11	METAL CHIP	68K	5%	1/10W
R671	1-216-836-11	METAL CHIP	18K	5%	1/10W
R672	1-216-836-11	METAL CHIP	18K	5%	1/10W
R680	1-247-831-91	CARBON	1K	5%	1/4W
R695	1-216-833-11	METAL CHIP	10K	5%	1/10W
R696	1-216-833-11	METAL CHIP	10K	5%	1/10W
R702	1-216-809-11	METAL CHIP	100	5%	1/10W
R703	1-216-821-11	METAL CHIP	1K	5%	1/10W
R704	1-216-821-11	METAL CHIP	1K	5%	1/10W
R705	1-216-809-11	METAL CHIP	100	5%	1/10W
R706	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R707	1-216-821-11	METAL CHIP	1K	5%	1/10W
R708	1-216-821-11	METAL CHIP	1K	5%	1/10W
R709	1-216-833-11	METAL CHIP	10K	5%	1/10W
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W
R711	1-216-833-11	METAL CHIP	10K	5%	1/10W
R712	1-216-821-11	METAL CHIP	1K	5%	1/10W
R713	1-216-821-11	METAL CHIP	1K	5%	1/10W
R714	1-216-821-11	METAL CHIP	1K	5%	1/10W
R715	1-216-821-11	METAL CHIP	1K	5%	1/10W
R716	1-216-821-11	METAL CHIP	1K	5%	1/10W
R717	1-216-833-11	METAL CHIP	10K	5%	1/10W
R718	1-216-833-11	METAL CHIP	10K	5%	1/10W
R719	1-216-809-11	METAL CHIP	100	5%	1/10W
R720	1-216-833-11	METAL CHIP	10K	5%	1/10W
R721	1-216-833-11	METAL CHIP	10K	5%	1/10W
R722	1-216-833-11	METAL CHIP	10K	5%	1/10W
R723	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT AEP, UK)
R724	1-216-821-11	METAL CHIP	1K	5%	1/10W
R725	1-216-833-11	METAL CHIP	10K	5%	1/10W
R726	1-216-833-11	METAL CHIP	10K	5%	1/10W
R727	1-216-821-11	METAL CHIP	1K	5%	1/10W
R729	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT AEP, UK)
R730	1-216-809-11	METAL CHIP	100	5%	1/10W
R731	1-216-815-11	METAL CHIP	330	5%	1/10W
R732	1-216-833-11	METAL CHIP	10K	5%	1/10W
R733	1-216-821-11	METAL CHIP	1K	5%	1/10W
R734	1-216-821-11	METAL CHIP	1K	5%	1/10W
R735	1-216-821-11	METAL CHIP	1K	5%	1/10W
R736	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R737	1-216-821-11	METAL CHIP	1K	5%	1/10W
R738	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R739	1-247-831-91	CARBON	1K	5%	1/4W
R746	1-216-809-11	METAL CHIP	100	5%	1/10W
R748	1-247-831-91	CARBON	1K	5%	1/4W
R749	1-216-821-11	METAL CHIP	1K	5%	1/10W
R750	1-216-821-11	METAL CHIP	1K	5%	1/10W
R751	1-216-821-11	METAL CHIP	1K	5%	1/10W
R753	1-216-821-11	METAL CHIP	1K	5%	1/10W
R754	1-216-809-11	METAL CHIP	100	5%	1/10W
R756	1-216-821-11	METAL CHIP	1K	5%	1/10W
R757	1-216-821-11	METAL CHIP	1K	5%	1/10W
R760	1-216-833-11	METAL CHIP	10K	5%	1/10W
R763	1-216-837-11	METAL CHIP	22K	5%	1/10W
R764	1-247-871-91	CARBON	47K	5%	1/4W
R765	1-216-833-11	METAL CHIP	10K	5%	1/10W
R766	1-216-833-11	METAL CHIP	10K	5%	1/10W
R767	1-216-809-11	METAL CHIP	100	5%	1/10W
R768	1-216-809-11	METAL CHIP	100	5%	1/10W
R769	1-216-809-11	METAL CHIP	100	5%	1/10W
R770	1-216-821-11	METAL CHIP	1K	5%	1/10W
R771	1-216-809-11	METAL CHIP	100	5%	1/10W
R772	1-216-821-11	METAL CHIP	1K	5%	1/10W
R773	1-216-809-11	METAL CHIP	100	5%	1/10W
R775	1-216-833-11	METAL CHIP	10K	5%	1/10W
R776	1-216-809-11	METAL CHIP	100	5%	1/10W
R777	1-216-809-11	METAL CHIP	100	5%	1/10W
R779	1-216-821-11	METAL CHIP	1K	5%	1/10W
R780	1-216-821-11	METAL CHIP	1K	5%	1/10W
R781	1-216-809-11	METAL CHIP	100	5%	1/10W
R782	1-247-831-91	CARBON	1K	5%	1/4W
R783	1-216-809-11	METAL CHIP	100	5%	1/10W
R784	1-216-809-11	METAL CHIP	100	5%	1/10W
R785	1-216-809-11	METAL CHIP	100	5%	1/10W
R786	1-216-833-11	METAL CHIP	10K	5%	1/10W
R787	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R788	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R789	1-216-809-11	METAL CHIP	100	5%	1/10W
R790	1-216-841-11	METAL CHIP	47K	5%	1/10W
R791	1-216-837-11	METAL CHIP	22K	5%	1/10W
R792	1-216-841-11	METAL CHIP	47K	5%	1/10W
R793	1-216-833-11	METAL CHIP	10K	5%	1/10W
R880	1-216-841-11	METAL CHIP	47K	5%	1/10W
R884	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R885	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R887	1-216-841-11	METAL CHIP	47K	5%	1/10W
R897	1-216-845-11	METAL CHIP	100K	5%	1/10W
R898	1-216-845-11	METAL CHIP	100K	5%	1/10W
R901	1-216-841-11	METAL CHIP	47K	5%	1/10W
R902	1-216-841-11	METAL CHIP	47K	5%	1/10W
R903	1-216-841-11	METAL CHIP	47K	5%	1/10W
R904	1-216-841-11	METAL CHIP	47K	5%	1/10W
R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R907	1-216-841-11	METAL CHIP	47K	5%	1/10W
R908	1-216-238-91	RES-CHIP	47K	5%	1/8W
R909	1-216-841-11	METAL CHIP	47K	5%	1/10W
R910	1-216-809-11	METAL CHIP	100	5%	1/10W
R911	1-216-809-11	METAL CHIP	100	5%	1/10W
R912	1-216-809-11	METAL CHIP	100	5%	1/10W
R913	1-216-809-11	METAL CHIP	100	5%	1/10W
R914	1-216-809-11	METAL CHIP	100	5%	1/10W
R915	1-216-809-11	METAL CHIP	100	5%	1/10W
R916	1-216-841-11	METAL CHIP	47K	5%	1/10W
R917	1-216-238-91	RES-CHIP	47K	5%	1/8W
R918	1-216-841-11	METAL CHIP	47K	5%	1/10W
R919	1-216-841-11	METAL CHIP	47K	5%	1/10W
R920	1-216-809-11	METAL CHIP	100	5%	1/10W
R921	1-216-841-11	METAL CHIP	47K	5%	1/10W
R922	1-216-841-11	METAL CHIP	47K	5%	1/10W
R923	1-216-809-11	METAL CHIP	100	5%	1/10W
R924	1-216-809-11	METAL CHIP	100	5%	1/10W
R925	1-216-809-11	METAL CHIP	100	5%	1/10W
R926	1-216-809-11	METAL CHIP	100	5%	1/10W
R927	1-216-809-11	METAL CHIP	100	5%	1/10W
R928	1-216-809-11	METAL CHIP	100	5%	1/10W
R929	1-247-807-31	CARBON	100	5%	1/4W
R930	1-247-807-31	CARBON	100	5%	1/4W
R931	1-216-809-11	METAL CHIP	100	5%	1/10W
R932	1-247-807-31	CARBON	100	5%	1/4W
R933	1-247-807-31	CARBON	100	5%	1/4W
R934	1-247-807-31	CARBON	100	5%	1/4W
R935	1-247-807-31	CARBON	100	5%	1/4W
R936	1-247-807-31	CARBON	100	5%	1/4W
R937	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R938	1-247-807-31	CARBON	100	5%	1/4W
R939	1-216-809-11	METAL CHIP	100	5%	1/10W
R940	1-216-833-11	METAL CHIP	10K	5%	1/10W
R941	1-216-833-11	METAL CHIP	10K	5%	1/10W
R942	1-216-833-11	METAL CHIP	10K	5%	1/10W
R943	1-247-807-31	CARBON	100	5%	1/4W
R947	1-216-809-11	METAL CHIP	100	5%	1/10W
R948	1-247-807-31	CARBON	100	5%	1/4W
R949	1-247-807-31	CARBON	100	5%	1/4W
R950	1-247-807-31	CARBON	100	5%	1/4W
R951	1-247-807-31	CARBON	100	5%	1/4W
R952	1-216-809-11	METAL CHIP	100	5%	1/10W
R953	1-216-809-11	METAL CHIP	100	5%	1/10W
R954	1-216-809-11	METAL CHIP	100	5%	1/10W
R955	1-216-809-11	METAL CHIP	100	5%	1/10W
R956	1-216-809-11	METAL CHIP	100	5%	1/10W
R958	1-247-807-31	CARBON	100	5%	1/4W
R959	1-247-807-31	CARBON	100	5%	1/4W
R960	1-216-809-11	METAL CHIP	100	5%	1/10W
R961	1-216-809-11	METAL CHIP	100	5%	1/10W
R962	1-216-809-11	METAL CHIP	100	5%	1/10W
R963	1-216-809-11	METAL CHIP	100	5%	1/10W
R965	1-216-864-11	SHORT CHIP	0		
R966	1-216-864-11	SHORT CHIP	0		
R977	1-216-833-11	METAL CHIP	10K	5%	1/10W
R978	1-216-841-11	METAL CHIP	47K	5%	1/10W
R979	1-216-841-11	METAL CHIP	47K	5%	1/10W
R980	1-216-833-11	METAL CHIP	10K	5%	1/10W
R981	1-216-864-11	SHORT CHIP	0		
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W
R987	1-216-821-11	METAL CHIP	1K	5%	1/10W
R988	1-216-821-11	METAL CHIP	1K	5%	1/10W
R989	1-216-837-11	METAL CHIP	22K	5%	1/10W
R990	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R991	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R992	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R993	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (US, CND, E51)
R993	1-216-864-11	SHORT CHIP	0 (SP, KR)		
R994	1-216-821-11	METAL CHIP	1K	5%	1/10W (E51)
R994	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (US, CND)
R994	1-216-864-11	SHORT CHIP	0 (AEP, UK)		
R995	1-216-853-11	METAL CHIP	470K	5%	1/10W
		< RELAY >			
⚠RY251	1-755-334-11	RELAY, AC POWER (US, CND, AEP, UK)			
⚠RY252	1-755-496-11	RELAY (E51, SP, KR)			
		< SWITCH >			
⚠S250	1-786-408-11	SELECTOR, VOLTAGE (SWS-2301) (VOLTAGE SELECTOR)(E51, SP)			

Ref. No.	Part No.	Description			Remarks
		< THERMISTOR >			
TH101	1-804-908-11	C-THMS, 55001			
TH102	1-804-908-11	C-THMS, 55001			
		< VIBRATOR >			
X901	1-760-252-12	VIBRATOR, CRYSTAL (32.768kHz)			
X902	1-795-482-11	VIBRATOR, CERAMIC (16MHz)			
**********					
	1-686-724-13	MODE MOTOR BOARD			
		**********			
**********					
		PT BOARD			
		*********			
		< CAPACITOR >			
C254	1-127-888-11	CERAMIC	0.1uF	10%	50V
		< CONNECTOR >			
* CN256	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P			(E51, SP, KR)
* CN257	1-564-508-11	PLUG, CONNECTOR 5P			
		< RESISTOR >			
⚠R254	1-219-237-11	SOLID	3.3M	20%	1/2W (US, CND)
**********					
	1-686-726-13	ROLLER MOTOR BOARD			
		**********			
**********					
	1-686-723-13	SENSOR BOARD			
		**********			
		< IC >			
IC751	8-749-017-45	SENSOR, PHONT RPR-220C1N			
**********					
		ST ENCODER BOARD			
		**********			
**********					
	1-686-725-13	STOCKER MOTOR BOARD			
		**********			
**********					
	1-686-727-13	SW (1) BOARD			
		**********			
		< SWITCH >			
S711	1-786-382-11	SWITCH, PUSH (1 KEY)			(DISC INSERT (8/12cm))
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SW (2) **SW (3)** **SW (4)** **USB**

Ref. No.	Part No.	Description			Remarks
	1-686-728-13	SW (2) BOARD			
		**********			
		< SWITCH >			
S713	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC IN (8/12cm))			
S714	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC IN (8cm))			
**********					
	1-686-729-13	SW (3) BOARD			
		**********			
		< SWITCH >			
S715	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC OUT)			
**********					
	1-686-730-13	SW (4) BOARD			
		< SWITCH >			
S716	1-786-382-11	SWITCH, PUSH (1 KEY) (STOCKER IN/OUT)			
S717	1-786-382-11	SWITCH, PUSH (1 KEY) (DISC POSITION)			
S718	1-786-382-11	SWITCH, PUSH (1 KEY) (STOCKING)			
**********					
	A-4751-918-A	USB BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C801	1-124-589-11	ELECT	47uF	20%	16V
C802	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C803	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C804	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C805	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C806	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C807	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C808	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C809	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C810	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C811	1-124-589-11	ELECT	47uF	20%	16V
C812	1-124-589-11	ELECT	47uF	20%	16V
C813	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C814	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C815	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C816	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C817	1-124-589-11	ELECT	47uF	20%	16V
C818	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C819	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN801	1-568-850-11	CONNECTOR, FFC 7P			
		< DIODE >			
D804	8-719-988-61	DIODE 1SS355TE-17			
		< EARTH TERMINAL >			
* EP801	1-537-738-21	TERMINAL, EARTH			

Ref. No.	Part No.	Description			Remarks
		< SHORT >			
FB801	1-216-864-11	SHORT CHIP	0		
FB802	1-216-864-11	SHORT CHIP	0		
FB803	1-216-864-11	SHORT CHIP	0		
		< IC >			
IC801	6-705-055-01	IC PCM2704DBR			
		< JACK >			
* J801	1-784-010-11	CONNECTOR, USB (B) (USB)			
		< SHORT >			
JR804	1-216-864-11	SHORT CHIP	0		
JR805	1-216-864-11	SHORT CHIP	0		
JR806	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q801	1-801-806-11	TRANSISTOR	DTC144EKA		
Q802	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
		< RESISTOR >			
R801	1-216-821-11	METAL CHIP	1K	5%	1/10W
R802	1-216-809-11	METAL CHIP	100	5%	1/10W
R803	1-216-270-00	RES-CHIP	1M	5%	1/8W
R804	1-216-801-11	METAL CHIP	22	5%	1/10W
R805	1-216-801-11	METAL CHIP	22	5%	1/10W
R806	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R807	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R808	1-216-853-11	METAL CHIP	470K	5%	1/10W
R809	1-216-853-11	METAL CHIP	470K	5%	1/10W
R810	1-216-801-11	METAL CHIP	22	5%	1/10W
R811	1-216-801-11	METAL CHIP	22	5%	1/10W
R813	1-216-809-11	METAL CHIP	100	5%	1/10W
R814	1-216-809-11	METAL CHIP	100	5%	1/10W
R815	1-216-845-11	METAL CHIP	100K	5%	1/10W
R816	1-216-801-11	METAL CHIP	22	5%	1/10W
R817	1-216-857-11	METAL CHIP	1M	5%	1/10W
R818	1-216-813-11	METAL CHIP	220	5%	1/10W
R819	1-216-813-11	METAL CHIP	220	5%	1/10W
R820	1-216-845-11	METAL CHIP	100K	5%	1/10W
R821	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< VIBRATOR >			
X801	1-767-925-11	VIBRATOR, CRYSTAL (12MHz)			
**********					
		MISCELLANEOUS			
		**********			
4	1-823-669-11	WIRE (FLAT TYPE) (11 CORE)			(EXCEPT AEP, UK)
4	1-828-895-11	WIRE (FLAT TYPE) (15 CORE) (AEP, UK)			
5	1-693-625-11	TUNER (FM/AM) (US, CND)			
5	1-693-626-11	TUNER (FM/AM) (AEP, UK)			
5	1-693-628-21	TUNER (FM/AM) (E51, SP)			

Ref. No.	Part No.	Description	Remarks
5	1-693-629-11	TUNER (FM/AM) (KR)	
6	1-763-697-21	DC FAN	
61	1-828-360-11	WIRE (FLAT TYPE) (19 CORE)	
68	1-796-351-71	MECHANISM, SIGNAL CASSETTE (CMAL1Z250A)	
73	1-828-948-11	WIRE (FLAT TYPE) (7 CORE)	
102	1-828-007-11	WIRE (FLAT TYPE) (8 CORE)	
⚠104	1-769-079-41	CORD, POWER (KR)	
⚠104	1-769-744-52	CORD, POWER (AEP, UK, E51, SP)	
⚠104	1-783-531-12	CORD, POWER (US, CND)	
106	1-400-043-11	CORE, FERRITE (US, CND)	
106	1-469-636-11	CORE, FERRITE (ESD-R-25SD)	
311	1-828-404-11	WIRE (FLAT TYPE)(27 CORE)	
605	1-827-992-11	WIRE (FLAT TYPE)(16 CORE)	
⚠606	8-820-252-01	OPTICAL PICK-UP (KSM-215CFP/C2NP)	(included in M101, M102)
607	1-828-403-11	WIRE (FLAT TYPE)(27 CORE)	
M761	A-4735-953-A	MOTOR ASSY (STOCKER)	
M771	A-4735-953-A	MOTOR ASSY (MODE)	
M781	A-4735-953-A	MOTOR ASSY (ROLLER)	
⚠PT252	1-443-217-11	TRANSFORMER, POWER (AEP, UK)	
⚠PT252	1-443-219-11	TRANSFORMER, POWER (US,CND)	
⚠PT253	1-443-220-11	TRANSFORMER, POWER (E51,SP,KR)	
S702	1-477-299-11	ENCODER, ROTARY (STOCKER POSITION)	
S771	1-477-300-11	ENCODER, ROTARY (MODE)	

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MEMO

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2004.05	New